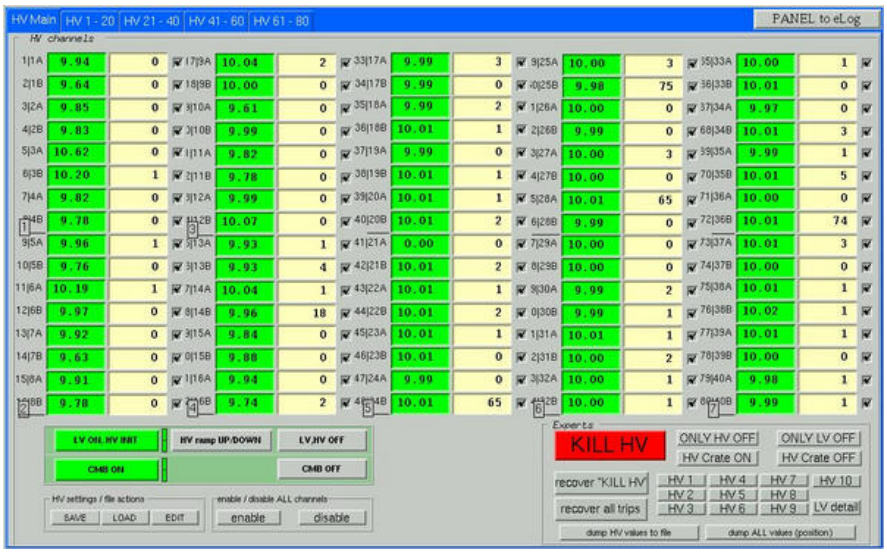
2007-09-17 11:00 Beni

CMBs 23 & 14 reinstalled

2007-09-17 11:49 **current @ 10V**



File: http://ttfinfo.desy.de/CALICEelog/data/2007/38/17.09/2007-09-17T11:49:02-00.jpg

2007-09-17 14:54 Beni **last measurement**

Measurement of the difference between temperature sensor voltage and digitized value for pos 1 module
3.

sensor	@module (mV)	digitized (deg C)
1	223.18	21.59
2	226.59	21.952
3	222.75	21.570
4	226.40	21.936
5	217.65	21.056

2007-08-19 00:09 Hakan/Allister/Sat **beamData**

350243	beamData	10x10	+25GeV	e+	623	Air	6mm Pb	0.35	0,0	20deg, 100k
350244	beamData	10x10	+20GeV	e+	622	Air	6mm Pb	0.5	0,0	20deg, 100k
350245	beamData	10x10	+15GeV	e+	625	Air	6mm Pb	0.8	0,0	20deg, 109k
350246	beamData	10x10	+10GeV	e+	626	Air	6mm Pb	2	0,0	20deg, 53k

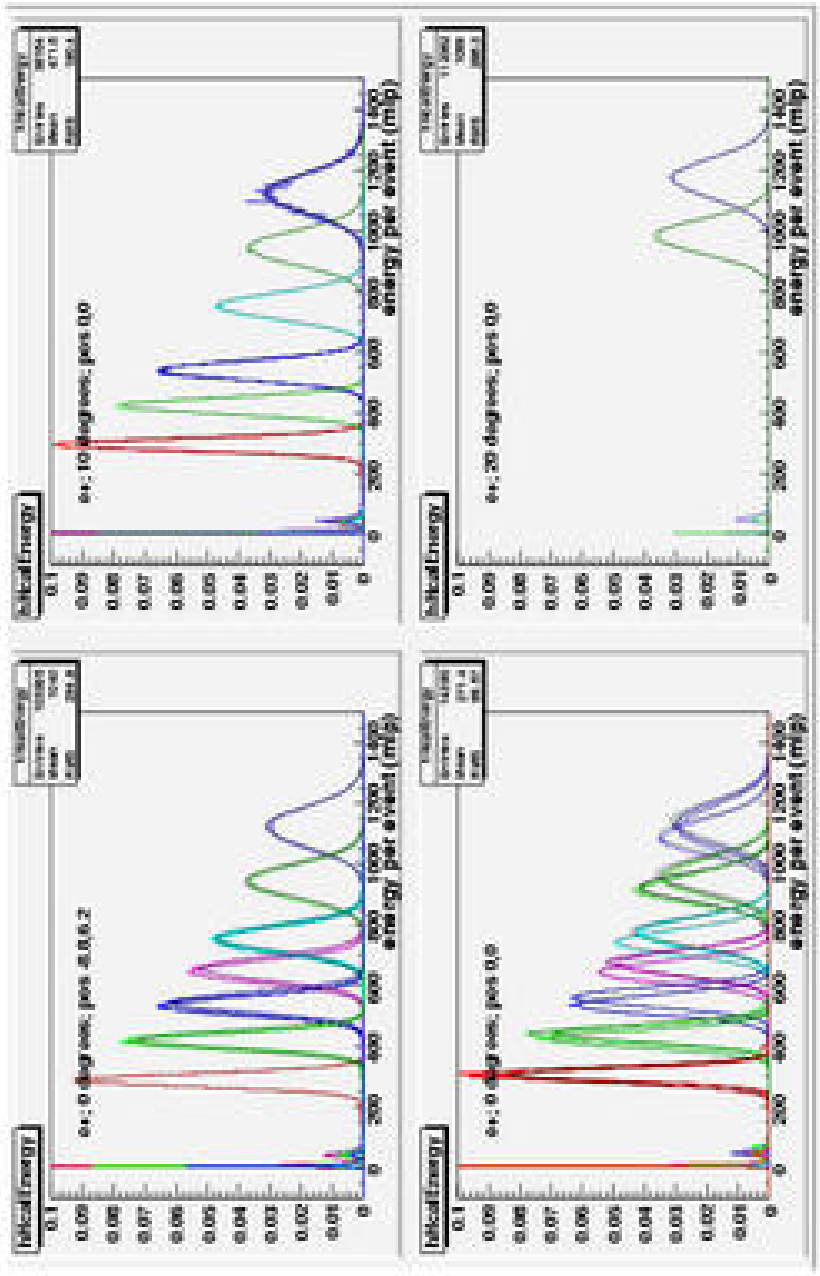
350246 stopped early due to beam being off-centre.

Adjusted TRIM06 current from 3.0A to 0A

350247	beamData	10x10	+10GeV	e+	626	Air	6mm Pb	2	0,0	20deg, 100k

2007-08-19 00:10 daniel **electron analysis**

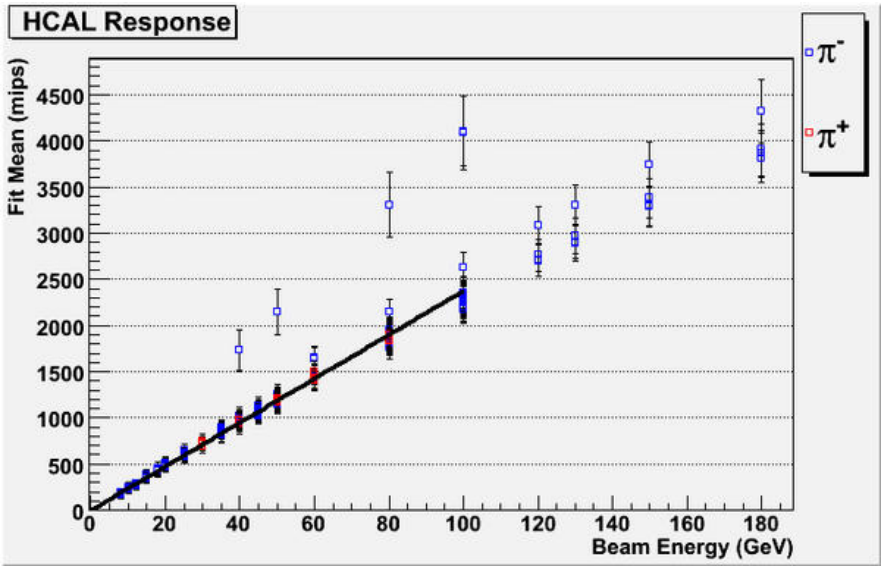
similar plots for e+ runs at different angles & positions.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/33/16.08/2007-08-19T00:10:50-00.ps

2007-08-19 02:53 Allister **HCAL pion response (combined runs)**

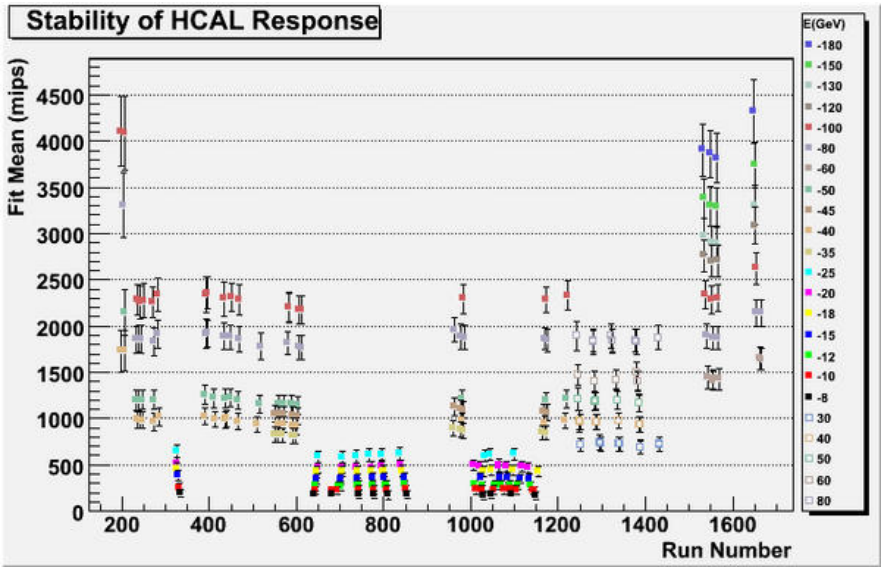
We plot the response of the HCAL to pions (obtained by gaussian fit of hHcalEnergy) as a function of beam energy for the combined ECAL+HCAL runs (33xxxx series). The linear fit is constrained to the origin. Some points deviate from the linear fit due to changes in HV settings. The errors bars are actually the gaussian fit sigma.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/33/19.08/2007-08-19T02:53:51-00.png

2007-08-19 02:58 Allister **HCAL pion response stability (combined runs)**

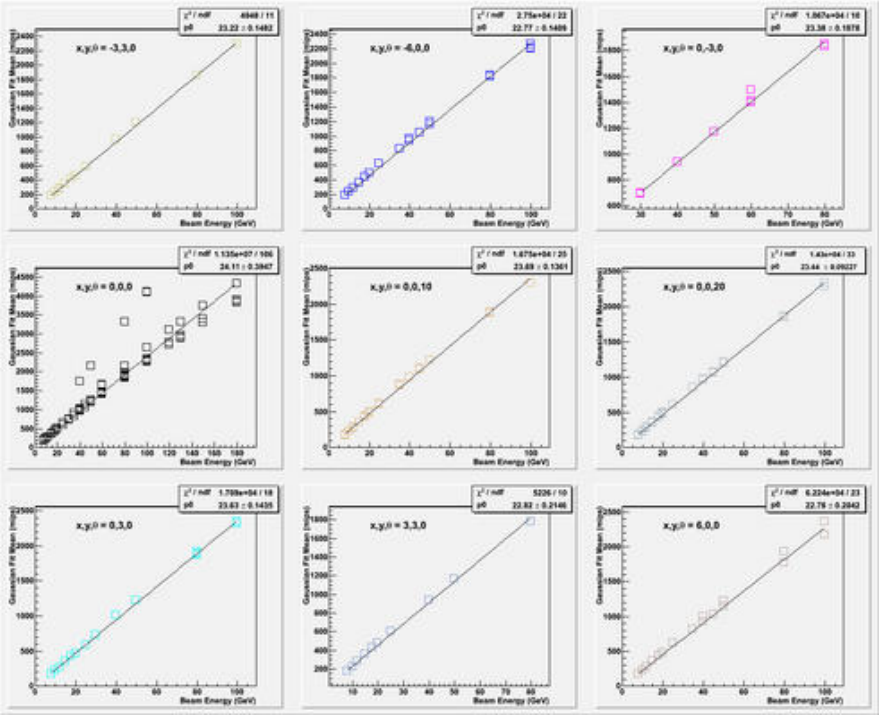
We plot the HCAL response to pions (obtained from gaussian fit of hHcalEnergy) vs the run number (i.e. time). The error bars are actually the gaussian fit sigma.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/33/19.08/2007-08-19T02:58:26-00.png

2007-08-19 03:37 Allister **ECAL response for different beam positions/angle**

We plot the HCAL response to pions (gaussian fit mean of hHcalEnergy) for the combined ECAL+HCAL runs (i.e. 33xxxx run series) for different beam positions and rotation angles.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/33/19.08/2007-08-19T03:37:55-00.png

2007-08-19 04:08	Hakan/Allister/Sat	**calibration runs**	
350248	ahcGain		
350249	ahcCmNoise		-e 20000
350250	ahcPmNoise		-e 20000
350251	ahcCmLedVcalibScan		
350252	ahcPmLedVcalibScan		

2007-08-19 05:08	Hakan/Allister/Sat	**30 GeV pion**								
350253	beamData	10x10	+30GeV	pi+	614	4mm Pb	Air	0.3	0,0	129k events, 20degrees, TRIM06 changed from -5 to -2 at 10kevents, to -1A at 50kevents
350254	beamData	10x10	+30GeV	pi+	614	4mm Pb	Air	0.3	0,0	51k events, 20degrees
350255	beamData	10x10	+40GeV	pi+	613	4mm Pb	Air	0.1	0,0	180k events, 20degrees, TRIM06 changed from 2 to 0 at 10kevents, to -2A at 30kevents
350256	beamData	10x10	+50GeV	pi+	612	4mm Pb	Air	0.1	0,0	150k events, 20degrees

2007-08-19 09:11	Jamie, Pavel, Beni	**pi+**							
350257	beamData	10x10	+60GeV	pi+	610	4mm Pb	air	0.04	0,0	150k 20 degrees
350258	beamData	10x10	+80GeV	pi+	611	4mm Pb	air	0.04	0,0	154k 20 degrees

2007-08-19 09:36 Jamie, Pavel, Beni

350259	beamData	10x10	+50GeV	e+	624	air	3mm Pb	0.04	0,0	1 drift chamber missing, 20 degrees

Beam failed after 12k events. First drift chamber appears to have failed. Investigation in progress...

3.3k trigger rate; 80Hz DAQ trigger average

2007-08-19 11:28 Erika, Jamie, Beni, Pavel **Hodoscope; TDC 1**

The hodoscope has been removed.
The discriminator on TDC 1, channel 5 has been exchanged.

2007-08-19 12:01 caliceon@calicehcal02.desy.de (CALICE user) **change position**

We went to the x-position of last time 20 deg. From this position we measured the distances driftchamber
to three points on the HCAL front plate.

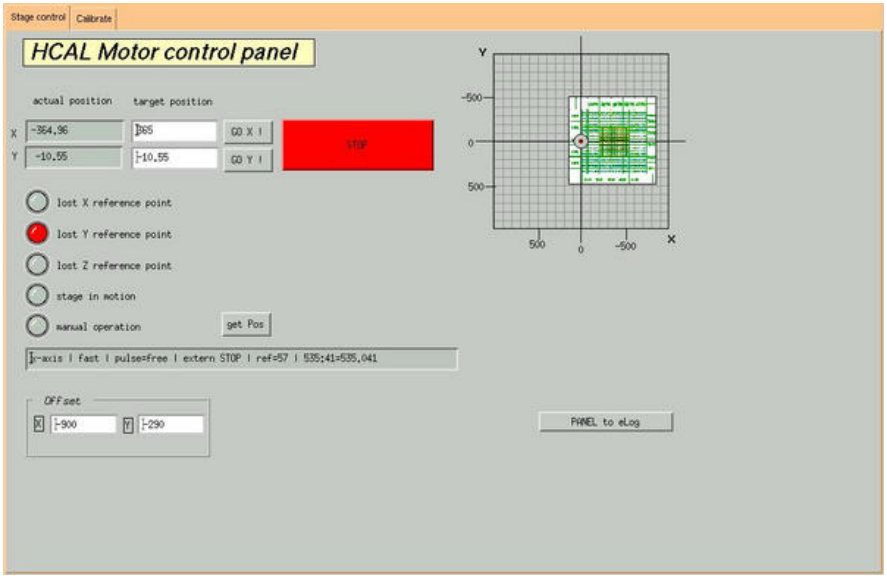
Top of drift chamber window closest to experiment to the incredibly precise and objective "middle" of the HCAL front plate:
-> 170.5cm

Top of DC window to left hand HCAL edge, level with window:
-> 192cm

Top of DC window to right hand HCAL edge, level with window:
-> 164cm

Front plate of HCAL to rear plate, along beam direction:
-> 129cm

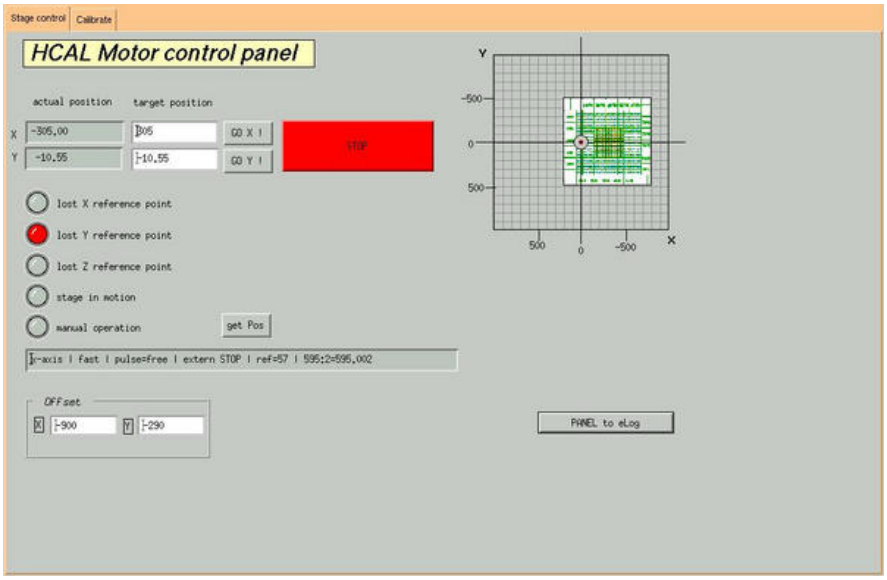
See p33 of logbook for a diagram.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/33/19.08/2007-08-19T12:01:03-00.jpg

2007-08-19 12:05 **new position**

We moved 6 cm in direction Saleve to take a set of data in a different position



File: http://ttfinfo.desy.de/CALICEelog/data/2007/33/19.08/2007-08-19T12:05:02-00.jpg

2007-08-19 12:14 Jamie, Pavel, Beni **beam back**

The beam is back, but we have problems with BEND03. It is oscillating around the reference +- 20 A. This happened already in the past. Unfortunately the control room is still to busy to fix the problems caused by the compensator fault from this morning. We will call them again in 30 min.

2007-08-19 12:55 Jamie, Pavel, Beni **e+**

350260	junk, as for 350261 but with the SPS and magnets all over the shop

350261	beamData	10x10	+50GeV	e+	624	air	3mm Pb	0.04	-6,0	110k, 20 degrees
350262	beamData	10x10	+40GeV	e+	620	air	3mm Pb	0.1	-6,0	20deg, 100k
350263	beamData	10x10	+30GeV	e+	621	air	3mm Pb	0.3	-6,0	100k, 20 degrees

2007-08-19 13:29 Jamie, Pavel, Beni **CESAR problem**

The beam steering GUI froze. We killed and restarted.

2007-08-19 14:15 Jamie, Pavel, Beni **e+**

350264	beamData	10x10	+25GeV	e+	623	air	6mm Pb	0.35	-6,0	100k, 20deg
350265	beamData	10x10	+20GeV	e+	622	air	6mm Pb	0.5	-6,0	100k, 20deg

2007-08-19 14:15 Jamie, Pavel, Beni **GRID problems**

There are general grid problems. All grid-based processes are stopped. We called Roman, and he will monitor the problem and annoy Experts if necessary.

Addendum RP (22:09 CEST): The error happened due to today's expiration of the lfc-host certificate. The renewed certificate did not propagate fully through the system. DESY it reacted on my mail during sunday afternoon :-) .

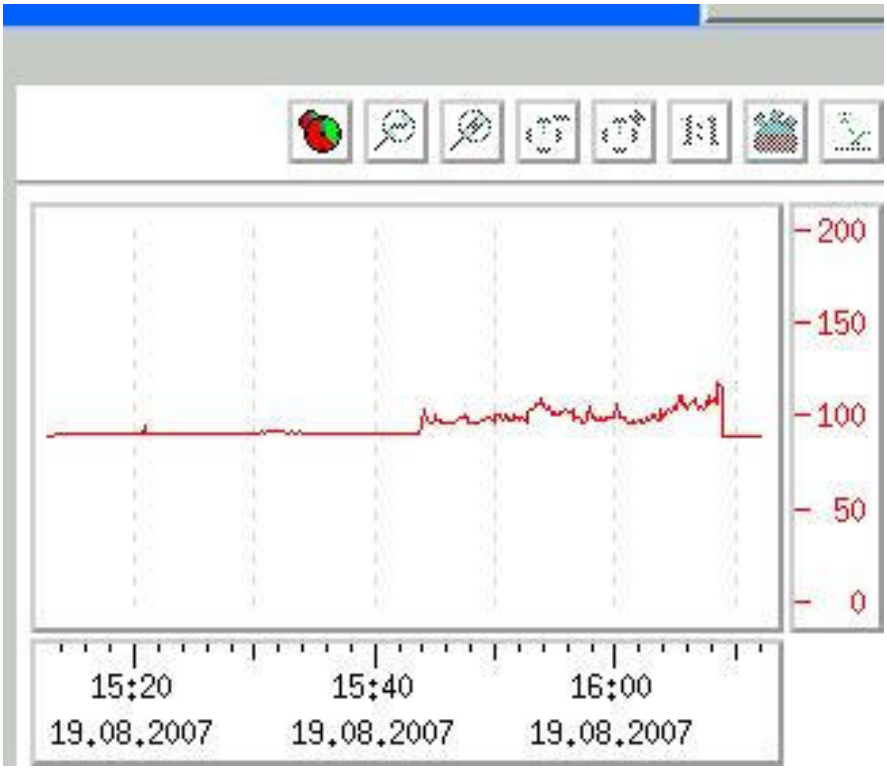
2007-08-19 15:50 Jamie, Pavel, Beni

350266	beamData	10x10	+20GeV	e+	unknown	air	6mm Pb	broken	21k, Cherenkov unknown, beam off after some time

The Cherenkov could not be set. Called control room. They have a look into the problem.
We noticed afterwards a wrong beam file set.

2007-08-19 15:54 **jumpy current**

HV channel 1, no lost DAC visible in data



File: http://ttfinfo.desy.de/CALICEelog/data/2007/33/19.08/2007-08-19T15:54:03-00.jpg

2007-08-19 16:06 Jamie, Pavel, Beni **no beam**

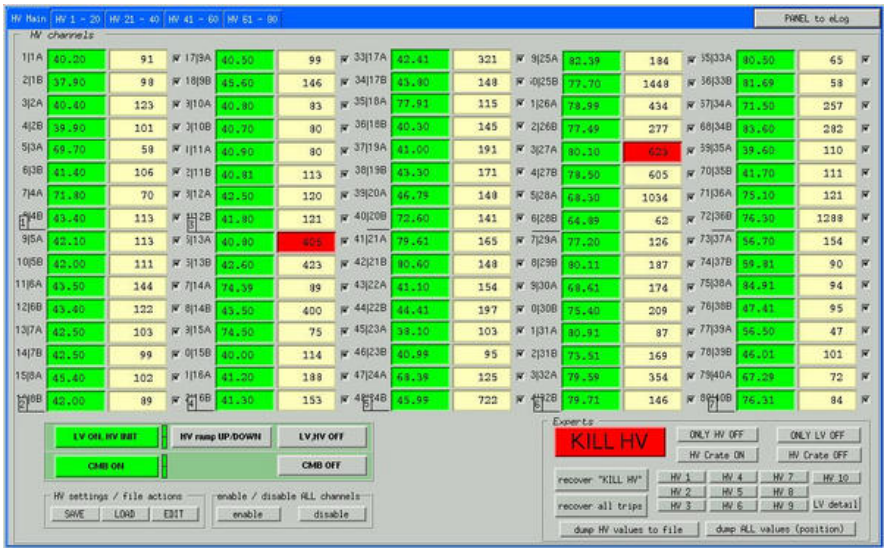
no beam
no Cherenkov

2007-08-19 16:12 Daniel, Anne-Marie, Petr, Beni **ahcGain run**

350268	ahcGain	
350269	ahcPmNoise	
350270	ahcCmNoise	

2007-08-19 16:29 **raised current limits**

changed current limits for HV channels 25 & 53



File: http://ttfinfo.desy.de/CALICEelog/data/2007/33/19.08/2007-08-19T16:29:02-00.jpg

2007-08-19 16:48 Daniel, Anna Marie, Petr, Beni **cerenkov pressure**

Got call from control room.

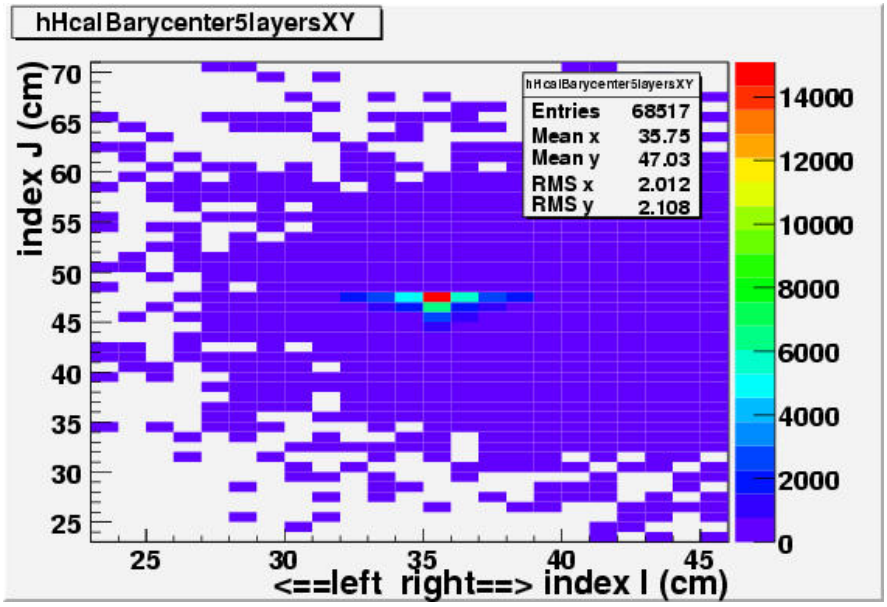
They are trying to contact an expert to solve our problem setting the cerenkov pressure, but having problems getting a response...they will continue trying.

2007-08-19 20:37 Daniel, Anne-Marie, Petr **15 GeV e+**

350273	beamData	10x10	+15GeV	e+	625	air	6mm Pb	unknown	-6,0	76k, 20deg
350274	beamData	10x10	+15GeV	e+	625	air	6mm Pb	unknown	-6,0	26k, 20deg

for both runs, the beam was unstable

Position seems at -10,0 more than -6,0 , see plot below...



File: http://ttfinfo.desy.de/CALICEelog/data/2007/33/19.08/2007-08-19T20:37:36-07.eps

2007-08-19 20:52 **2 hot hv channels**

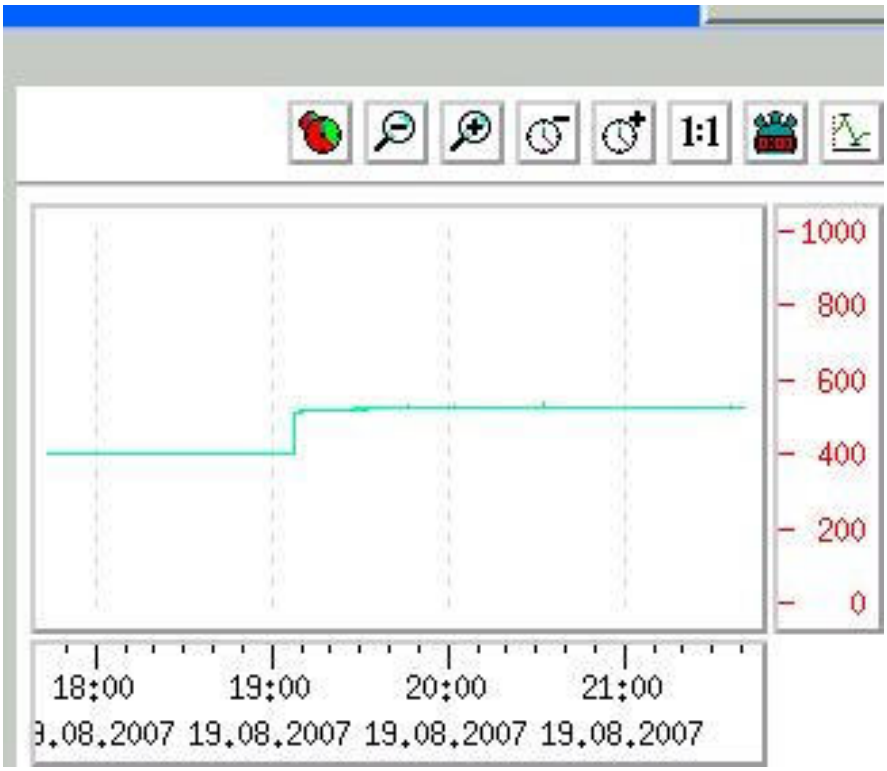


File: http://ttfinfo.desy.de/CALICEelog/data/2007/33/19.08/2007-08-19T20:52:03-00.jpg

2007-08-19 21:24 caliceon@calicehost.desy.de **step 12, hv channel slot17, fe0**
(CALICE user)

this one is not showing an error (red)

hv channel 28
layer14, module 16



File: http://ttfinfo.desy.de/CALICEelog/data/2007/33/19.08/2007-08-19T21:24:03-00.jpg

2007-08-19 21:43 Daniel, Anne-Marie, Petr **DAC reloaded**

350275	DAC settings reloaded

2007-08-19 21:47 Daniel, Anne-Marie, Petr

350276	beamData	10x10	+10GeV	e+	626	air	6mm Pb	unknown	-6,0	38k, 20deg

2007-08-19 21:52 Roman **Shipping out slw, log and sum files**

```
FYI ...

I have just started to ship out the sum, slw and log files for this years
cern running into the desy dcache

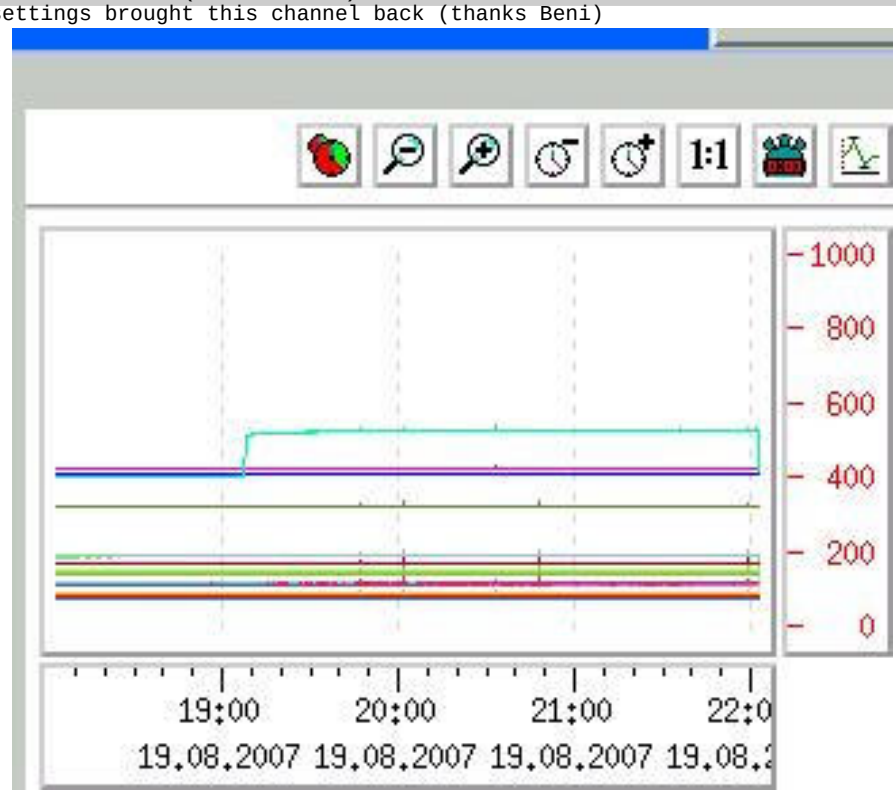
Thus you will find from now on a process called grid_cp_misc.sh .

I will monitor these transfers.

Roman
```

2007-08-19 21:54 caliceon@calicehost17.fe0n.ch (CALICE user)

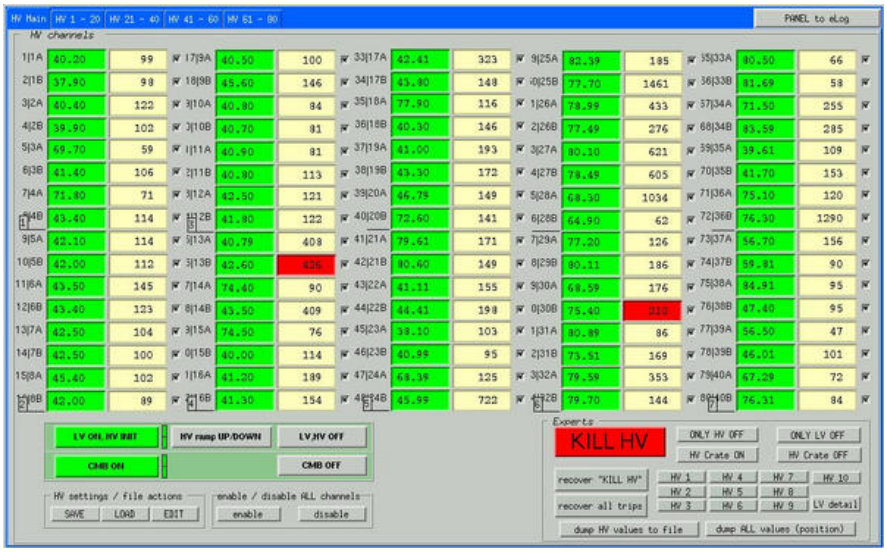
```
reloading dac settings brought this channel back (thanks Beni)
```



File: http://ttfinfo.desy.de/CALICEelog/data/2007/33/19.08/2007-08-19T21:54:04-00.jpg

2007-08-19 22:06 **raised current limit**

```
raise limits of HV channel 26 and 60
```



File: http://ttfinfo.desy.de/CALICEelog/data/2007/33/19.08/2007-08-19T22:06:04-00.jpg

2007-08-19 22:18 Daniel, Anne-Marie, Petr

350277	beamData	10x10	+10GeV	e+	626	air	6mm Pb	unknown	-6,0	5k, 20deg

adjusted Trim06 to -1

2007-08-19 22:21 Daniel, Anne-Marie, Petr

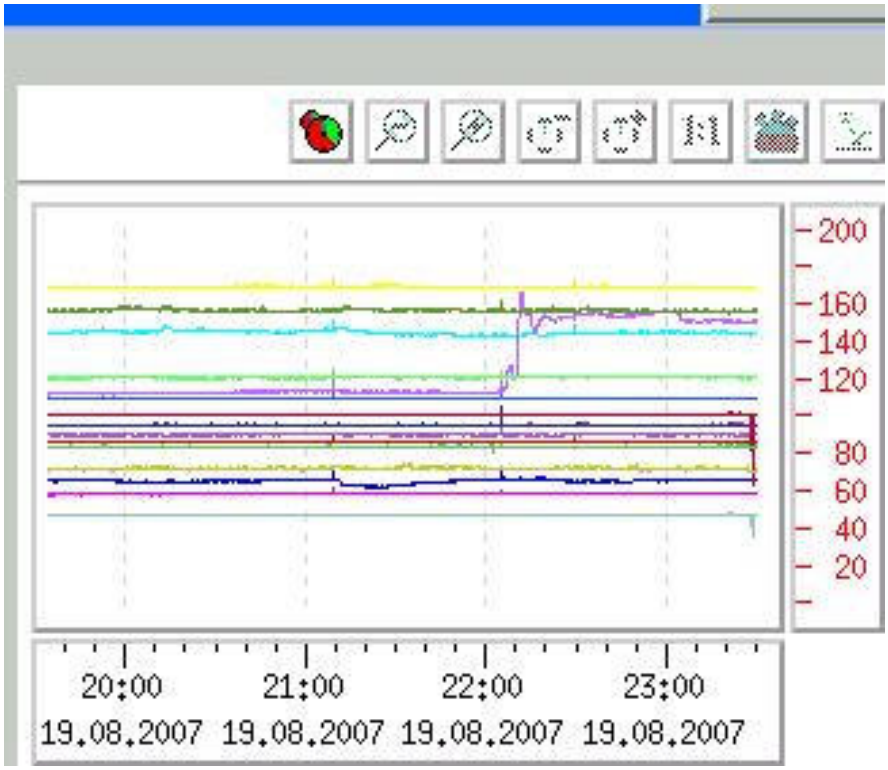
350278	beamData	10x10	+10GeV	e+	626	air	6mm Pb	unknown	-6,0	60k , 20deg

2007-08-19 22:59 Daniel, Anne-Marie, Petr **junk run**

350279	junk run

2007-08-19 23:12 caliceon@calicehdaq3.cern.ch, (CALICE user) **hv channel 70, slot5, fe5**

shows step



File: http://ttfinfo.desy.de/CALICEelog/data/2007/33/19.08/2007-08-19T23:12:03-00.jpg

2007-08-19 23:12 Daniel, Anne-Marie, Petr **DAC reloaded**

350280	DAC settings reloaded

2007-08-19 23:12 Daniel, Anne-Marie, Petr **ahcGain**

350281	ahcGain	

2007-08-19 23:38 Daniel, Anne-Marie, Petr **80 GeV pion +**

350282	beamData	10x10	+80GeV	pi+	611	4mm Pb	air	unknown	-6,0	100 k , 20deg

too low rate

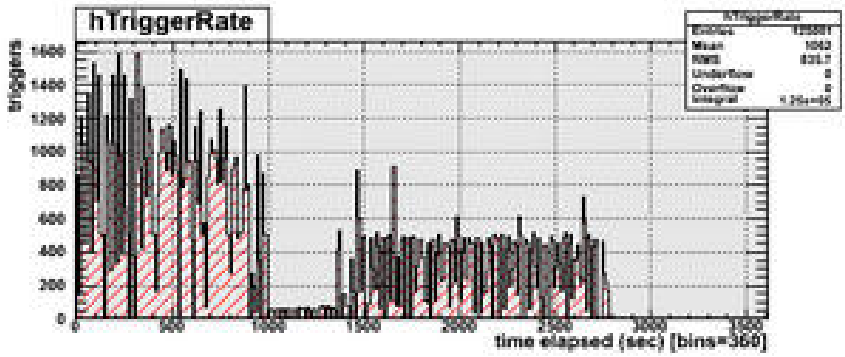
2007-08-20 0:00 Beni **they care a lot ...**

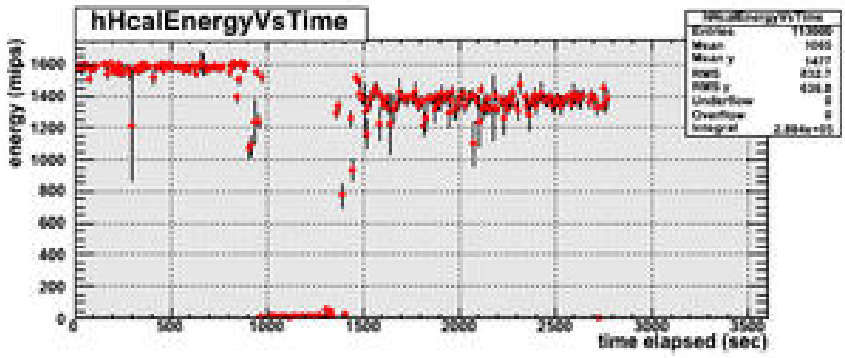
This is a copy of the SPS elog entry concerning our Cherenkov problem:

More info on the problem with the BXCET (reported by previous shift crew at 15.26). I could find out that there is a process called BXCET, but this process is running at three machines (v1n438, v1n472 and V3n351). We can't find any info which machine is responsable for the concerning problem. We could try a wreboot, but don't know what side effect it will have for possible other users. We leave the problem as is for the moment and hope the BI group can solve the problem in the morning. In the meantime the H6 beamline can still use the Cherenkov detector, however without the possibility to change settings...

2007-08-20 00:52 Satoru, Allister, Hakan **Drop of trigger rate and HCAL energy plot**

We notice a drop of trigger rate for run 350283 after a loss of beam.





File: http://ttfinfo.desy.de/CALICEelog/data/2007/34/20.08/2007-08-20T00:52:24-00.png

2007-08-20 01:16 Hakan/Allister/Satoru **60 GeV pions**

350284	Beam Data	10x10	+60GeV	pi+	610	4mm Pb	Air	0.5	-6,0	20deg, 160k ev.

2007-08-20 02:03 Satoru, Allister, Hakan

350285	beamData	10x10	+50GeV	pi+	612	4mm Pb	Air	0.5	-6,0	20deg, 166k

										events

2007-08-20 02:47 Satoru, Allister, Hakan

350286	beamData	10x10	+40GeV	pi+	613	4mm Pb	Air	0.5	-6,0	20deg, 157k events

2007-08-20 03:47 Satoru, Allister, Hakan **data taking stopped due to unstable magnet**

When we loaded beam file 614, one magnet (BEND03) fails to adjust to the new reference value and
is also rather unstable. Reloading the beam file doesn't solve the problem. We have called
the Accelerator Control Room to ask for support.
-> Accelerator guys told that it is due to a problem of magnet power supply.
Experts will fix it in 30 minutes.
Take calibrations meanwhile.

2007-08-20 03:57 Satoru, Allister, Hakan **calibrations**

350287	ahcGain	
350288	ahcCmNoise	20k events
350289	ahcPmNoise	20k events
350290	ahcCmLedVcalibScan	
350291	ahcPmLedVcalibScan	

2007-08-20 04:47 Satoru, Allister, Hakan

Call from control room.
Magnet power supply problem has been fixed.
Continue data taking with beam.

2007-08-20 04:48 Satoru, Allister, Hakan

350292	beamData	10x10	+30GeV	pi+	614	4mm Pb	Air	0.5	-6,0	20deg, stopped at 16k events due to magnet problem.
350293	beamData	10x10	+30GeV	pi+	614	4mm Pb	Air	0.5	-6,0	20deg BEND03 unstable. Stopped at 133k due to BEND03 problem again.

2007-08-20 04:55 Satoru, Allister, Hakan

The problem on magnet BEND03 is appeared again.
Called to accelerator control room.

2007-08-20 05:32 Satoru, Allister, Hakan

BEND03 is back.
Start run 350293.

2007-08-20 05:39 Satoru, Allister, Hakan

BEND03 sometimes drop off from the right value,
But continue with run 350293 anyway.

2007-08-20 06:18

BEND03 problem again...
Stopped run 350293 and call to accelerator control room.

2007-08-20 06:21

Take calibrations meanwhile.

2007-08-20 06:21

350294	ahcGain	
350295	ahcCmNoise	-e 20000
350296	ahcPmNoise	-e 20000
350297	ahcCmLedVcalibScan	
350298	ahcPmLedVcalibScan	

2007-08-20 07:45

Problem on BEND03 seems to be gone, but still need to keep eyes on it.
Start another run anyway.

2007-08-20 07:46

350299	beamData	10x10	+30GeV	pi+	614	4mm Pb	Air	0.5	-6,0	20deg

2007-08-20 10:34 Erika, Beni, Jamie, Pavel **rotation to 30 deg**

We have rotated the HCAL to 28.3 degrees.

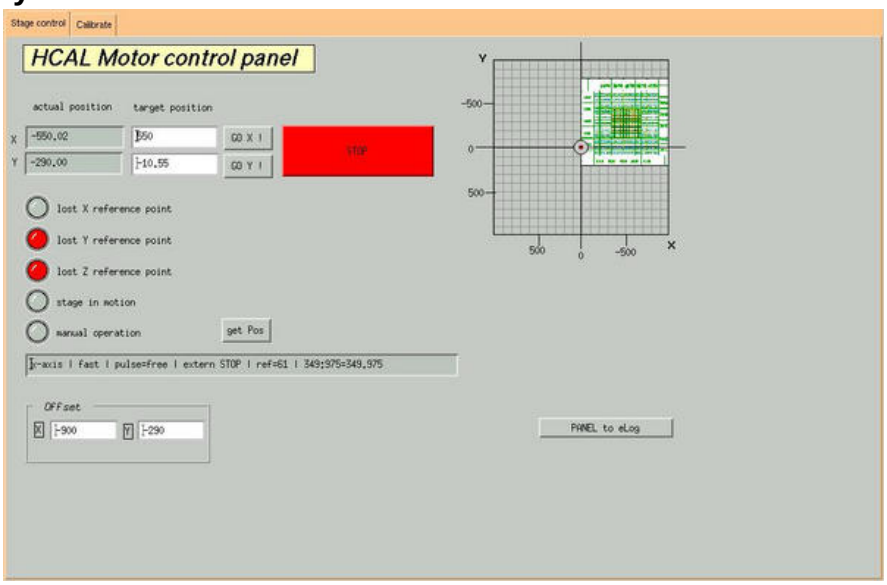
2007-08-20 11:17 Erika, Beni, Jamie, Pavel **pion run**

350304	beamData	10x10	+60GeV	pi+	610	4mm Pb	air	N/A	0,0	running

2007-08-20 11:23 caliceon@calicehcal02.cern.ch (CALICE user) **absorber stage movement**

We move to where we guess the new 0,0 position is.

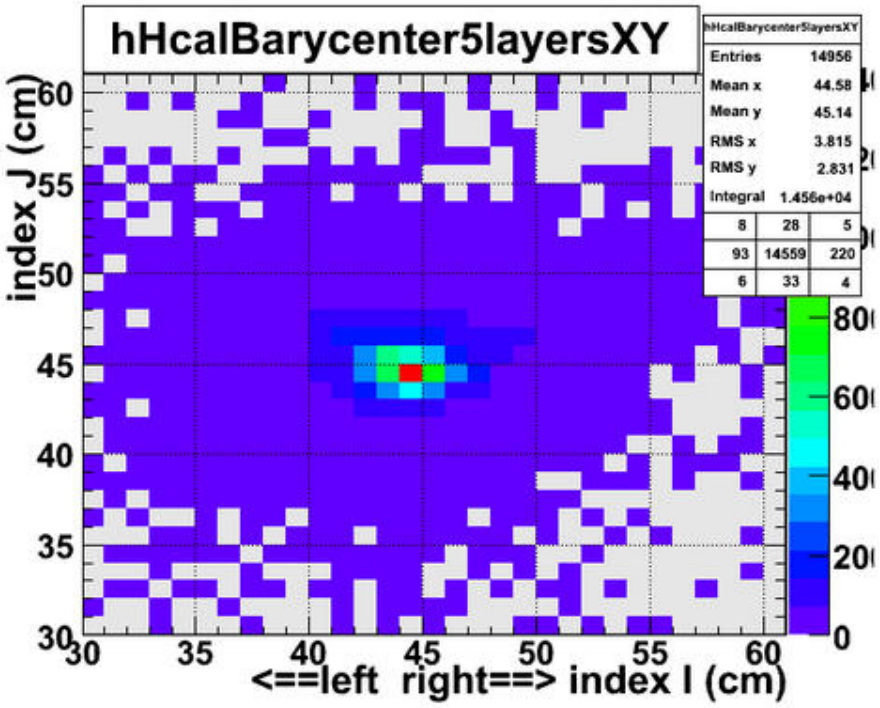
Due to problems during the stage movement, the y-position reading is arbitrary.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/34/20.08/2007-08-20T11:23:02-00.jpg

2007-08-20 11:34 **beam position in HCAL**

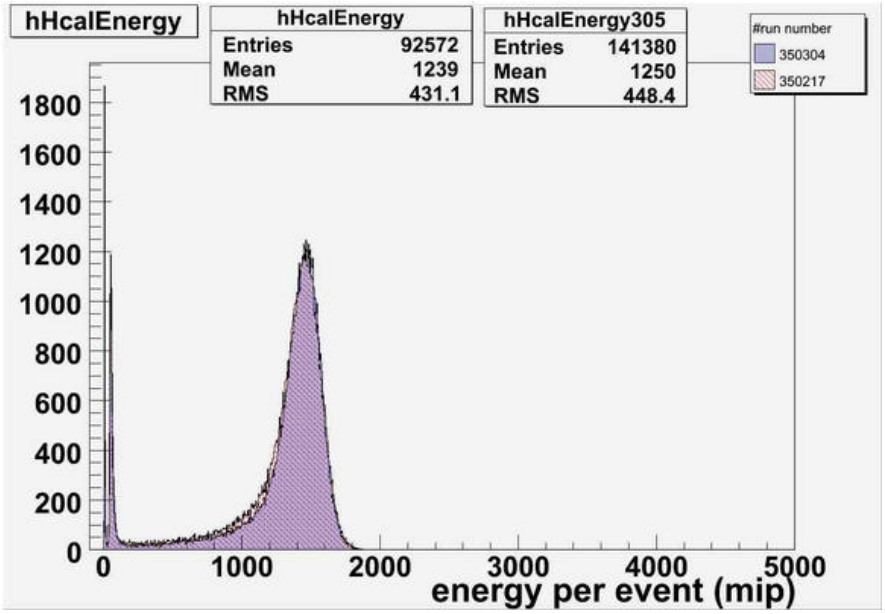
Our guess was good! We are centered.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/34/20.08/2007-08-20T11:34:03-00.gif

2007-08-20 12:48 Jamie, Pavel, Beni, Erika

Compare of the HCAL energy distribution for 60GeV pion



File: http://ttfinfo.desy.de/CALICEelog/data/2007/34/20.08/2007-08-20T12:48:41-01.jpg

2007-08-20 12:48 Jamie, Pavel, Beni **pion run**

350305	beamData	10x10	+50GeV	pi+	612	4mm Pb	air	0.3	0,0	30deg, 150k, collimators were miss-set in this run, changed at 120k

										events
350306	beamData	10x10	+40GeV	pi+	613	4mm Pb	air	0.3	0,0	30deg, 150k

2007-08-20 13:34 Jamie, Pavel, Beni

350307	beamData	10x10	+30GeV	pi+	614	4mm Pb	air	0.3	0,0	garbage, lost TCMT dac settings, reload
350309	beamData	10x10	+30GeV	pi+	614	4mm Pb	air	0.3	0,0	30deg, 150k
350310	beamData	10x10	+80GeV	pi+	611	4mm Pb	air	0.03	0,0	155k, 30 deg

2007-08-20 15:54 Jamie, Pavel, Beni **e+ run**

350311	beamData	10x10	+50GeV	e+	624	air	3mm Pb	0.04	0,0	110k, 30 degs
350312	beamData	10x10	+40GeV	e+	620	air	3mm Pb	0.04	0,0	101k, 30 deg

2007-08-20 16:19 Daniel, Anne-Marie, Petr **e+ runs**

350313	beamData	10x10	+30GeV	e+	621	air	3mm Pb	0.3	0,0	100k, 30 degs
350314	beamData	10x10	+25GeV	e+	623	air	3mm Pb	0.35	0,0	37k, 30 degs
350315	beamData	10x10	+25GeV	e+	623	air	3mm Pb	0.35	0,0	80k, 30 degs
350316	beamData	10x10	+20GeV	e+	622	air	3mm Pb	0.5	0,0	100k, 30 degs
350317	beamData	10x10	+15GeV	e+	625	air	3mm Pb	0.8	0,0	100k, 30 degs

2007-08-20 19:44 Daniel, Anne-Marie, Petr **junk run**

350318	junk run

2007-08-20 20:26 Daniel, Anne-Marie, Petr **e+ run**

350319	beamData	10x10	+10GeV	e+	626	air	3mm Pb	2.0	0,0	35k, 30 degs
350320	beamData	10x10	+10GeV	e+	626	air	3mm Pb	2.0	0,0	70k, 30 degs

350319 was stopped because beam at +90 in x in tracking chamber 3.
Move it back to 0 for 350320.

2007-08-20 21:05 Daniel, Anne-Marie, Petr **Calibration run**

350321	ahcGain	
350322	ahcPmNoise	-e 20000
350323	ahcCmNoise	-e 20000
350324	ahcPmLedVcalibScan	
350325	ahcCmLedVcalibScan	

2007-08-20 21:51 Daniel, Anne-Marie, Petr **junk run**

350326	junk run

2007-08-20 21:52 Daniel, Anne-Marie, Petr **pi+**

350327	beamData	10x10	+80GeV	pi+	611	4mm Pb	air	0.3	0,0	154k, 30 degs
350328	beamData	10x10	+60GeV	pi+	610	4mm Pb	air	0.3	0,0	151k, 30 degs
350329	beamData	10x10	+50GeV	pi+	612	4mm	air	0.3	0,0	150k, 30

						Pb				degs
350330	beamData	10x10	+40GeV	pi+	613	4mm Pb	air	0.1	0,0	40k, 30 degs
350331	beamData	10x10	+40GeV	pi+	613	4mm Pb	air	0.1	0,0	15k, 30 degs
350332	beamData	10x10	+40GeV	pi+	613	4mm Pb	air	0.1	0,0	155k, 30 degs

2007-08-21 00:08 Hakan/Allister/Satoru **AHCAL run**

350333	beamData	10x10	+30GeV	pi+	614	4mm Pb	air	0.3	0,0	155k, 30 degs

2007-08-21 01:01 Hakan/Allister/Satoru **Positron Runs**

350334	beamData	10x10	+50GeV	e+	624	air	3mm Pb	0.03	0,0	165k, 30degrees
350335	beamData	10x10	+40GeV	e+	620	air	3mm Pb	0.1	0,0	155k, 30degrees
350336	beamData	10x10	+30GeV	e+	621	air	3mm Pb	0.3	0,0	150k, 30degrees
350337	beamData	10x10	+25GeV	e+	623	air	6mm Pb	0.35	0,0	101k, 30degrees
350338	beamData	10x10	+20GeV	e+	622	air	6mm Pb	0.5	0,0	101k, 30degrees
350339	beamData	10x10	+15GeV	e+	625	air	6mm Pb	0.8	0,0	102k, 30degrees TRIM06 red beamref=0.3 read=0.6 but beam position looks OK with online plots.
350340	beamData	10x10	+10GeV	e+	626	air	6mm Pb	2.0	0,0	100k, 30degrees

2007-08-21 06:29 Hakan/Allister/Satoru

350341	ahcGain	
350342	ahcCmNoise	-e 20000
350343	ahcPmNoise	-e 20000
350344	ahcCmLedVcalibScan	
350345	ahcPmLedVcalibScan	

2007-08-21 07:30 Hakan/Allister/Satoru

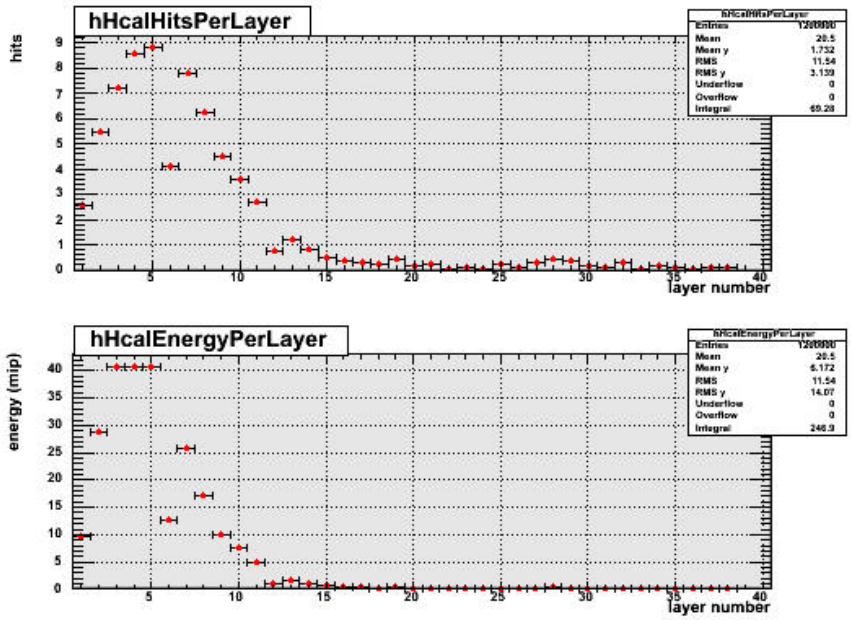
Stage moved from (0,0) to (+6,0).
Start taking data again from e+ 10 GeV.

2007-08-21 07:31 Hakan/Allister/Satoru

350346	beamData	10x10	+10GeV	e+	626	air	6mm Pb	2.0	6,0	110k, 30degrees

2007-08-21 07:53

Shower profile of run 350346 (10GeV e+).
Energy is dropped off at Layer 6.
This has been appeared since current run (350346), after moving the stage to (6,0).



File: http://ttfinfo.desy.de/CALICEelog/data/2007/34/21.08/2007-08-21T07:53:39-00.png

2007-08-21 08:49	Jamie, Pavel, Beni	**e+**								
350347	beamData	10x10	+15GeV	e+	625	air	6mm Pb	0.8	+6,0	110k 30 degs
350348	beamData	10x10	+20GeV	e+	622	air	6mm Pb	0.5	+6,0	100k 30 degs
350349	beamData	10x10	+25GeV	e+	623	air	6mm Pb	0.35	+6,0	100k 30 degs
350350	beamData	10x10	+30GeV	e+	621	air	3mm Pb	0.30	+6,0	100k 30 degs
350351	beamData	10x10	+40GeV	e+	620	air	3mm Pb	0.10	+6,0	100k 30 degs
350352	beamData	10x10	+50GeV	e+	624	air	3mm Pb	0.04	+6,0	107k 30 degs

2007-08-21 13:31	Jamie, Pavel, Beni	**pi+**								
350353	beamData	10x10	+30GeV	pi+	614	4mm Pb	air	moving	+6,0	12k 30 degs
350354	beamData	10x10	+30GeV	pi+	614	4mm Pb	air	0.29	+6,0	100k 30 degs
350356	beamData	10x10	+40GeV	pi+	613	4mm Pb	air	0.10	+6,0	165k 30 degrees
350357	beamData	10x10	+50GeV	pi+	612	4mm Pb	air	0.04	+6,0	50k 30 degrees

PS shutdown for machine development at 15h30.

350355	dac settings reloaded.

2007-08-21 16:39	Daniel, Anne-Marie, Petr	**calibration runs**
350358	ahcGain	setting up manual steering of module 2
350359	ahcGain	manually steered module 2
350360	ahcCmNoise	
350361	ahcPmNoise	
350362	ahcCmVcalibScan	
350363	ahcPmVcalibScan	

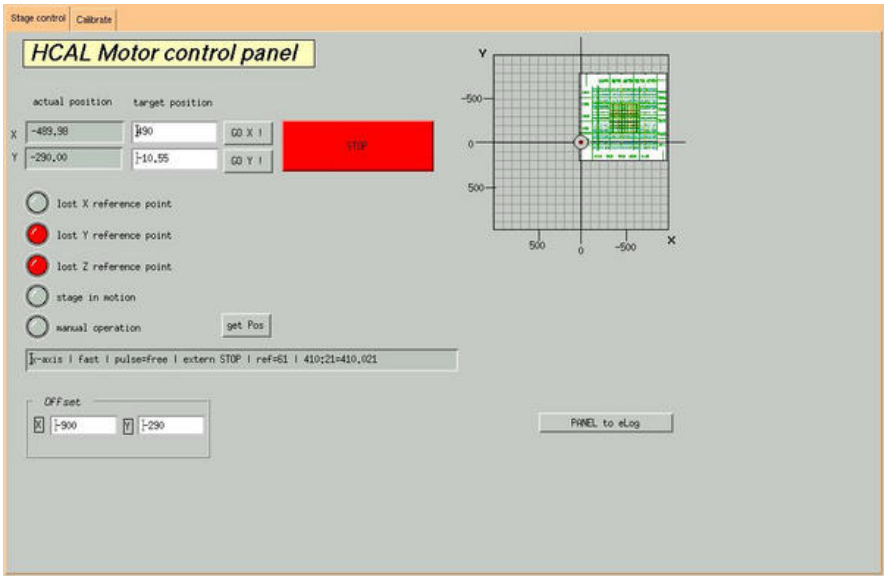
2007-08-21 20:01	Daniel, Anne-Marie, Petr	**pi+ runs**								
350364	beamData	10x10	+50GeV	pi+	612	4mm Pb	air	0.04	+6,0	85k 30 degs

350365						junk				

350366	beamData	10x10	+50GeV	pi+	612	4mm Pb	air	0.04	+6,0	15k 30 degs
350367	beamData	10x10	+80GeV	pi+	611	4mm Pb	air	0.04	+6,0	150k 30 degs
350368	beamData	10x10	+60GeV	pi+	610	4mm Pb	air	0.04	+6,0	150k 30 degs

2007-08-21 21:39 caliceon@calicehostdesy.de **new stage position**
(CALICE user)

to (-6, 0)
X = 490



File: http://ttfinfo.desy.de/CALICEelog/data/2007/34/21.08/2007-08-21T21:39:03-00.jpg

2007-08-21 21:39 Daniel, Anne-Marie, Petr **pi+ runs**

350369	beamData	10x10	+60GeV	pi+	610	4mm Pb	air	0.04	-6,0	150k 30 degs
350370	beamData	10x10	+80GeV	pi+	611	4mm Pb	air	0.04	-6,0	152k 30 degs

350371						junk run				

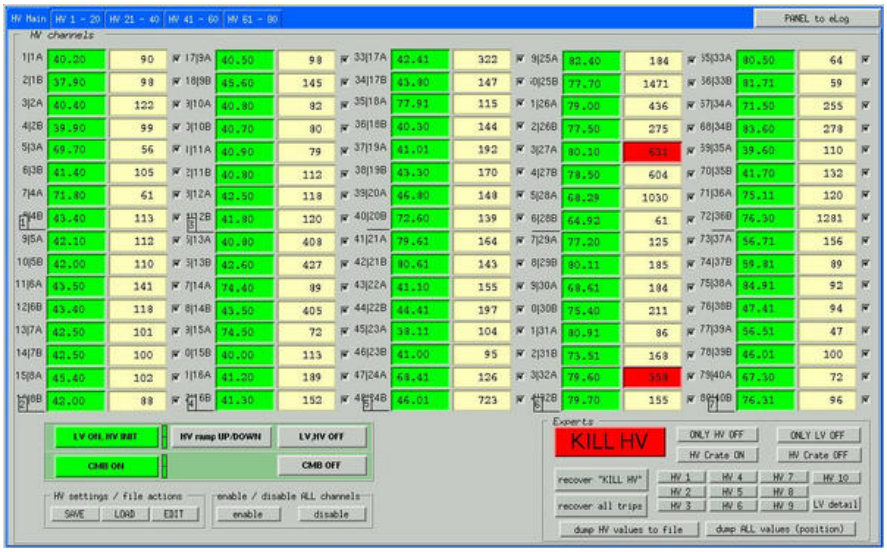
350372	beamData	10x10	+50GeV	pi+	612	4mm Pb	air	0.04	-6,0	154k 30 degs

2007-08-21 22:07 Beni **changed CM VCALIB**

Reduced the CM-Vcalib value for module 25

2007-08-21 22:23 **raised current limit**

raised current limit of HV channels 53 & 63



File: http://ttfinfo.desy.de/CALICEelog/data/2007/34/21.08/2007-08-21T22:23:04-00.jpg

2007-08-21 22:36 Daniel, Anne-Marie, Petr

350373	beamData	10x10	+40GeV	pi+	613	4mm Pb	air	0.1	-6,0	20k 30 degs

adjust trim 06

350374	beamData	10x10	+40GeV	pi+	613	4mm Pb	air	0.1	-6,0	130k 30 degs

2007-08-21 23:15 Daniel, Anne-Marie, Petr **Calibration run**

350375	ahcGain	manual steering of module 2
350376	junk run	
350377	ahcCmNoise	
350378	ahcPmNoise	
350379	ahcCmVcalibScan	
350380	ahcPmVcalibScan	

2007-08-22 00:16 Satoru,Hakan,Allister

350381	beamData	10x10	-20GeV	pi-	523	4mm Pb	air	0.5	0,0	110k 30 degs
350382	beamData	10x10	-15GeV	pi-	521	4mm Pb	air	0.8	0,0	30k 30 degs
350383	beamData	10x10	-15GeV	pi-	521	4mm Pb	air	0.8	0,0	100k 30 degs
350384	beamData	10x10	-10GeV	pi-	520	8mm Pb	air	2.0	0,0	108k 30 degs

2007-08-22 00:36 mmm

350375	ahcGain	
350376	junk run	
350377	ahcCmNoise	200k events
350378	ahcPmNoise	200k events
350379	ahcCmLedVcalibScan	
350380	ahcPmLedVcalibScan	

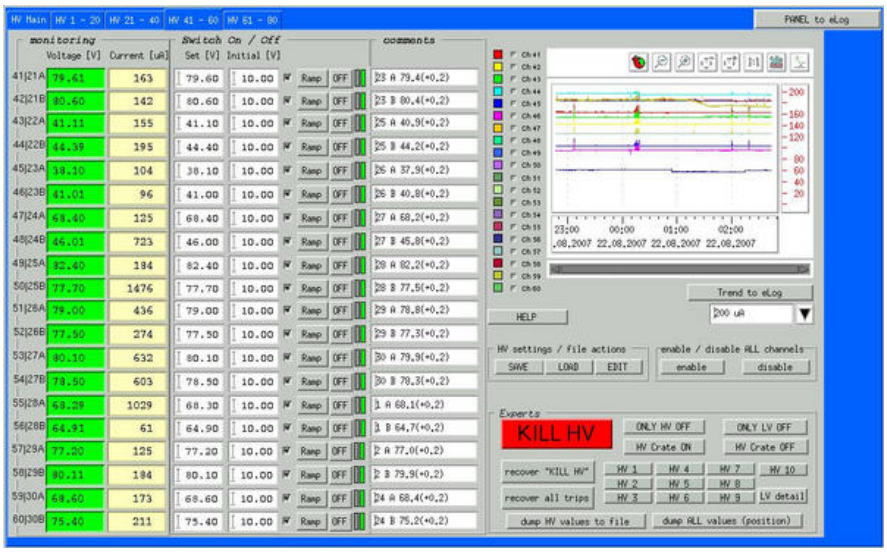
2007-08-22 01:52 Satoru,Hakan,Allister

350385	beamData	10x10	-10GeV	e-	520	air	air	2.0	0,0	100k 30 degs
350386	beamData	10x10	-15GeV	e-	521	air	air	0.8	0,0	45k 30 degs, stopped because beam is way off center
350387	beamData	10x10	-15GeV	e-	521	air	air	0.8	0,0	101k

										30 degs

2007-08-22 02:25

Ch 59 and 56 seem to be moved.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/34/22.08/2007-08-22T02:25:04-00.jpg

2007-08-22 03:20 Satoru,Hakan,Allister

350388	ahcGain

Waiting for beam to come back.

2007-08-22 03:32 Satoru,Hakan,Allister

350389	beamData	10x10	-20GeV	e-	523	air	air	0.5	0,0	105k 30 degs

2007-08-22 03:53 Satoru,Hakan,Allister

350390	beamData	10x10	-12GeV	pi-	524	8mm Pb	air	1.5	0,0	101k 30 degs
350391	beamData	10x10	-8GeV	pi-	525	8mm Pb	air	1.5	0,0	k 30 degs

2007-08-22 04:47 Satoru,Hakan,Allister

350392	beamData	10x10	-6GeV	e-	023	air	air	3.0	0,0	77k 30 degs stopped due to magnet failure
350393	beamData	10x10	-6GeV	e-	023	air	air	3.0	0,0	35k 30 degs stopped due to magnet failure
350394	beamData	10x10	-6GeV	e-	023	air	air	3.0	0,0	7k 30 degs
350395	beamData	10x10	-6GeV	e-	023	air	air	3.0	0,0	30 degs JUNK !

2007-08-22 08:00 **end of 2007 running @ CERN**

THE END

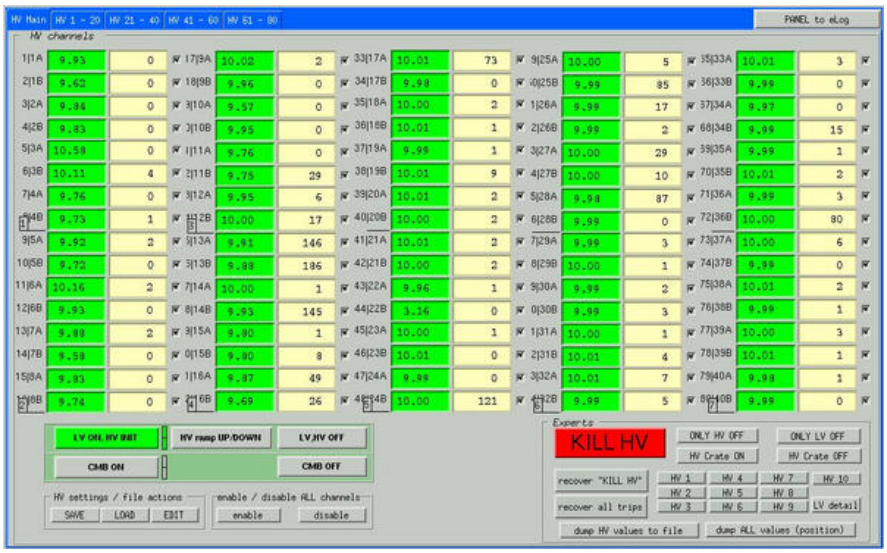
the last shift says goodbye

see you all again @ FERMILAB



File: http://ttfinfo.desy.de/CALICEelog/data/2007/34/22.08/2007-08-22T09:05:26-01.jpg

2007-08-22 08:42 **current @ 10V**



File: http://ttfinfo.desy.de/CALICEelog/data/2007/34/22.08/2007-08-22T08:42:03-00.jpg

2007-08-22 09:00 Beni **gain tricks**

350397	ahcGain	module 2 manual

350398	junk

350399	only modules 1,2,14,25, manually controlling module 2, 14, 25 see next table

layer	module	conf	1	2	3	4	5	6	7	8	9	10	11
12	14		ped	107				108				107	ped
22	25		ped	107		108			109			107	ped
29	2		ped	108				109				107	ped

350400	ahcCmLedHoldScan	with manual amplitude setting

new holds extracted for module 14 & 25

350401	junk
350402	ahcGain
350403	ahcGain
350404	ahcGain

2007-08-22 15:00 Beni **problems over problem**

SlowControl problems & DAQ problems after switching off and remounting module 1 CMB

2007-08-22 17:00 Beni **running again**

After several powerdown, powerup, slowcontrol twiggeling, restaring DAQ, going directly on calice02
I can steer the DAQ & detector again

2007-08-22 18:00 Beni **module 1 conclusions**

After checking all signals of module one:
The module delivers a wrong TCalib signal. Instead of a differential signal I see one line grounded.
The CMB does not accept this signal as trigger.

There is not enough time left for further debugging and fixing. We have to live without a calibration
for this module for now.

2007-08-23 11:21 Roman Poeschl **Transfers finished**

As far as I see all primary files, i.e. binaries and related log and slw files
have been shipped out from the control room disk array.

Therefore I need no further access to the disk array.

In principle the computers can be switched off now but as said earlier
we may leave them simply running until we finally will remove them middle of
september.

Cheers,

Roman

2007-07-29 00:13 Roman, Nanda **pi- run**

331075	beamData	10x10	-10GeV	pi-	520	8mm Pb	Air	1.99	0,0	20deg

10x10 trigger rate: 1.4 kpps
DAQ rate: 60Hz
150kevt

2007-07-29 01:00 Roman, Nanda **e- run**

331076	beamData	10x10	-10GeV	e-	520	Air	Air	1.99	0,0	20deg

closed collimators 1,5,6,10,11 from 12 to 5mm
10x10 trigger rate: 4.1 kpps
DAQ rate: 80Hz
150kevt

2007-07-29 01:26 Roman, Nanda **e- run**

331077	beamData	10x10	-12GeV	e-	524	Air	Air	1.5	0,0	20deg, junk
331078	beamData	10x10	-12GeV	e-	524	Air	Air	1.5	0,0	20deg, junk
331079	beamData	10x10	-12GeV	e-	524	Air	Air	1.5	0,0	20deg, good

10x10 trigger rate: 10.9 kpps
DAQ rate: 90Hz
beam not centred in DC (x mean at ~100)
-> change trim06 from -5 to -15A
331078
wrong direction again :(
-> adjust trim06 to +5A
331079
now nicely centred beam
have to reduce collimators 1,5,6,10,11 from 6 to 5mm
then 10x10 trigger rate: 6.8kpps
150kevt
DAQ rate: 80Hz

2007-07-29 02:17 Roman, Nanda **e- run**

331080	beamData	10x10	-15GeV	e-	521	Air	Air	0.79	0,0	20deg, junk
331081	beamData	10x10	-15GeV	e-	521	Air	Air	0.79	0,0	20deg, good

not centred in DC
-> adjust trim05 from -4 to -6A & trim06 from -2.5 to -10.5A

10x10 trigger rate: 8.6kpps
DAQ rate: 80Hz
150kevt

2007-07-29 02:47 Roman, Nanda **e- run**

331082	beamData	10x10	-20GeV	e-	523	Air	Air	0.50	0,0	20deg

10x10 trigger rate: 8.8kpps
DAQ rate: 80Hz
150kevt

2007-07-29 03:19 Roman, Nanda **pi- run**

331083	beamData	10x10	-20GeV	pi-	523	4mm Pb	Air	0.50	0,0	20deg

10x10 trigger rate: 3.2kpps
DAQ rate: 70Hz
150kevt

2007-07-29 03:52 Roman, Nanda **pi- run**

331084	beamData	10x10	-15GeV	pi-	521	4mm Pb	Air	0.79	0,0	20deg

10x10 trigger rate: 4.1kpps
DAQ rate: 70Hz
150kevt

2007-07-29 07:57 Beni, Martin, Ariane **pi- 12 GeV**

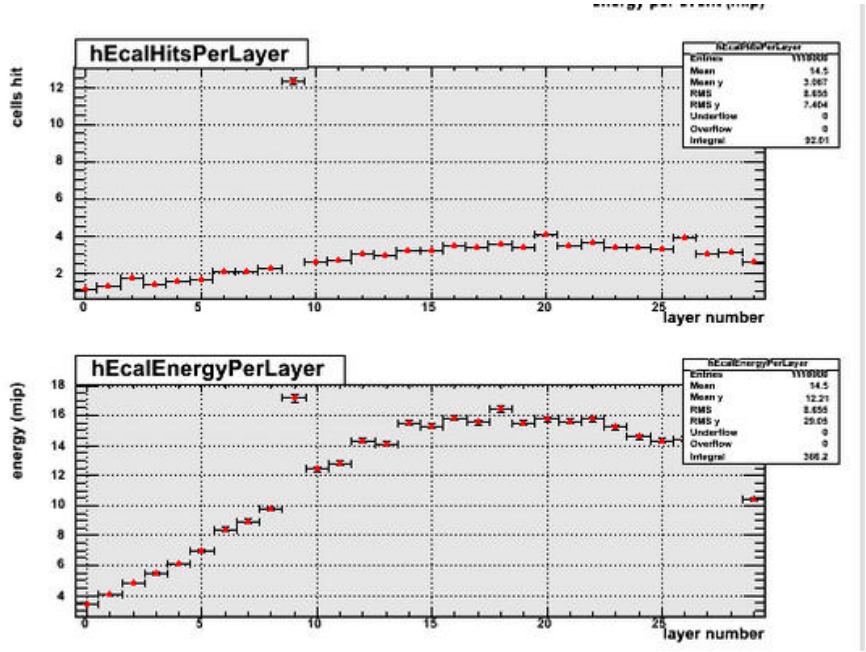
331090	beamData	10x10	-12GeV	pi-	524	8mm Pb	Air	1.5	0,0	20deg

1800 pps
DAQ rate: 60 Hz

previous beam settings running continously until now (331086,87,88,89...)

2007-07-29 08:20 caliceon@calicesemsy.DESY **noisy ECAL layer**

noisy layer 9 in run 331090



File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/29.07/2007-07-29T08:20:02-00.gif

2007-07-29 08:40 Beni, Martin, Ariane **calibration runs**

331091	ahcGain

2007-07-29 08:43 Beni, Martin, Ariane **pi- 10 GeV**

331092	beamData	10x10	-10GeV	pi-	520	8mm Pb	Air	2.0	0,0	20deg, short time beam off (400s -550s)

1400 pps
DAQ rate: 60 Hz
150k events

2007-07-29 09:50 Beni, Martin, Ariane **junk run**

331093	beamData	10x10	-8GeV	pi-	525	8mm Pb	Air	2.3	0,0	20deg, junk

X tracker slightly off, adjusting current, run stopped

2007-07-29 09:59 Beni, Martin, Ariane **pi- 8 GeV**

331094	beamData	10x10	-8GeV	pi-	525	8mm Pb	Air	2.3	0,0	20deg

low rate, changing collimeter position according to general rule

1200 pps
DAQ rate: 60 Hz
150k events

2007-07-29 10:11 Beni, Martin, **GUI crashed**

Ariane

The online monitor GUI crashed. You can still press the buttons and zoom in the windows. But the displayed data is not updated anymore. The error output is attached.

This has already happened a few times, namely while rapidly starting and stopping beams

---

```
      •** Break *** segmentation violation
(no debugging symbols found)
Using host libthread_db library "/lib64/tls/libthread_db.so.1".
Attaching to program: /proc/6595/exe, process 6595
`shared object read from target memory' has disappeared; keeping its symbols.
(no debugging symbols found)...done.
(no debugging symbols found)...done.
(no debugging symbols found)...done.
(no debugging symbols found)...done.
(no debugging symbols found)...done.
(no debugging symbols found)...done.
[Thread debugging using libthread_db enabled]
[New Thread 4129945280 (LWP 6595)]
(no debugging symbols found)...done.
(no debugging symbols found)...done.
(no debugging symbols found)...done.
(no debugging symbols found)...done.
(no debugging symbols found)...done.
(no debugging symbols found)...done.
(no debugging symbols found)...done.
(no debugging symbols found)...done.
(no debugging symbols found)...done.
(no debugging symbols found)...done.
(no debugging symbols found)...done.
(no debugging symbols found)...done.
(no debugging symbols found)...done.
(no debugging symbols found)...done.
(no debugging symbols found)...done.
(no debugging symbols found)...done.
(no debugging symbols found)...done.
(no debugging symbols found)...done.
0xffffe410 in __kernel_vsyscall ()
1. 1  0x00766c63 in __waitpid_nocancel () from /lib/tls/libc.so.6
2. 2  0x007113f9 in do_system () from /lib/tls/libc.so.6
3. 3  0x0082c83d in system () from /lib/tls/libpthread.so.0
4. 4  0xf7ac7985 in TUnixSystem::Exec ()
   from /scratch/software/i386/extern/root/lib/libCore.so
1. 5  0xf7ac7ddd in TUnixSystem::StackTrace ()
   from /scratch/software/i386/extern/root/lib/libCore.so
1. 6  0xf7ac5e26 in TUnixSystem::DispatchSignals ()
   from /scratch/software/i386/extern/root/lib/libCore.so
1. 7  0xf7ac3e4d in SigHandler ()
   from /scratch/software/i386/extern/root/lib/libCore.so
1. 8  0xf7aca345 in sighandler ()
   from /scratch/software/i386/extern/root/lib/libCore.so
1. 9  <signal handler called>
2. 10 0xf5fefaf1 in TFitEditor::UpdateGUI ()
   from /scratch/software/i386/extern/root/lib/libFitPanel.so
1. 11 0xf60031f5 in GGFitPanel_270_0_15 ()
   from /scratch/software/i386/extern/root/lib/libFitPanel.so
1. 12 0xf734da8b in Cint::G__CallFunc::Execute ()
   from /scratch/software/i386/extern/root/lib/libCint.so
1. 13 0xf79ac504 in TQConnection::ExecuteMethod ()
   from /scratch/software/i386/extern/root/lib/libCore.so
1. 14 0xf79b0233 in TQObject::Emit ()
   from /scratch/software/i386/extern/root/lib/libCore.so
1. 15 0xf6d0b94e in TPad::RangeAxisChanged ()
   from /scratch/software/i386/extern/root/lib/libGpad.so
1. 16 0xf6d38d1f in TPad::RangeAxis ()
   from /scratch/software/i386/extern/root/lib/libGpad.so
1. 17 0xf604a08c in THistPainter::RecalculateRange ()
   from /scratch/software/i386/extern/root/lib/libHistPainter.so
1. 18 0xf603c45c in THistPainter::PaintFrame ()
   from /scratch/software/i386/extern/root/lib/libHistPainter.so
1. 19 0xf6034abd in THistPainter::Paint ()
   from /scratch/software/i386/extern/root/lib/libHistPainter.so
1. 20 0xf712d913 in TH1::Paint ()
   from /scratch/software/i386/extern/root/lib/libHist.so
1. 21 0xf6d34411 in TPad::PaintModified ()
   from /scratch/software/i386/extern/root/lib/libGpad.so
1. 22 0xf6d3433d in TPad::PaintModified ()
   from /scratch/software/i386/extern/root/lib/libGpad.so
1. 23 0xf6d17adc in TCanvas::Update ()
   from /scratch/software/i386/extern/root/lib/libGpad.so
1. 24 0xf6d32c1a in TPad::Update ()
   from /scratch/software/i386/extern/root/lib/libGpad.so
1. 25 0x080783ae in MyMainFrame::HandleVetoInfo ()
2. 26 0x08075988 in MyMainFrame::HandleList ()
```

```
3. 27 0x080742d3 in MyMainFrame::DoStart ()
4. 28 0x08098073 in G__LinkDict_722_0_10 ()
5. 29 0xf734da8b in Cint::G__CallFunc::Execute ()
   from /scratch/software/i386/extern/root/lib/libCint.so
1. 30 0xf79ac504 in TQConnection::ExecuteMethod ()
   from /scratch/software/i386/extern/root/lib/libCore.so
1. 31 0xf79b0233 in TQObject::Emit ()
   from /scratch/software/i386/extern/root/lib/libCore.so
1. 32 0xf643b304 in TGButton::Clicked ()
   from /scratch/software/i386/extern/root/lib/libGui.so
1. 33 0xf6435306 in TGButton::EmitSignals ()
   from /scratch/software/i386/extern/root/lib/libGui.so
1. 34 0xf6435060 in TGButton::SetState ()
   from /scratch/software/i386/extern/root/lib/libGui.so
1. 35 0xf64351f7 in TGButton::HandleButton ()
   from /scratch/software/i386/extern/root/lib/libGui.so
1. 36 0xf6470685 in TGFrame::HandleEvent ()
   from /scratch/software/i386/extern/root/lib/libGui.so
1. 37 0xf644800c in TGClient::HandleEvent ()
   from /scratch/software/i386/extern/root/lib/libGui.so
1. 38 0xf6447c24 in TGClient::ProcessOneEvent ()
   from /scratch/software/i386/extern/root/lib/libGui.so
1. 39 0xf6447d43 in TGClient::HandleInput ()
   from /scratch/software/i386/extern/root/lib/libGui.so
1. 40 0xf64460ca in TGInputHandler::Notify ()
   from /scratch/software/i386/extern/root/lib/libGui.so
1. 41 0xf7ac5029 in TUnixSystem::DispatchOneEvent ()
   from /scratch/software/i386/extern/root/lib/libCore.so
1. 42 0xf79d4686 in TSystem::InnerLoop ()
   from /scratch/software/i386/extern/root/lib/libCore.so
1. 43 0xf79d4626 in TSystem::Run ()
   from /scratch/software/i386/extern/root/lib/libCore.so
1. 44 0xf794e054 in TApplication::Run ()
   from /scratch/software/i386/extern/root/lib/libCore.so
1. 45 0x080662e2 in main ()
```

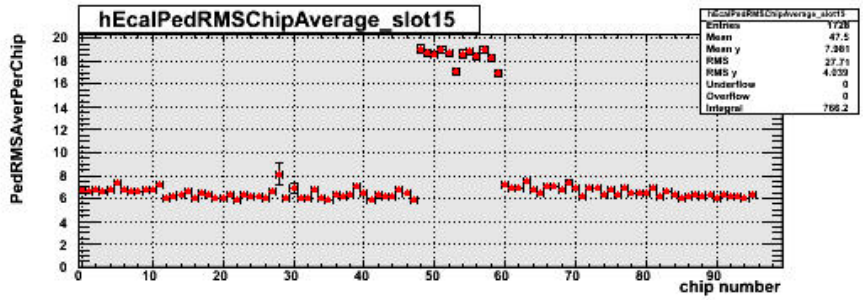
2007-07-29 10:41 Beni, Martin, Ariane **junk run**

331095	beamData	10x10	-18 GeV	pi-	522	4mm Pb	Air	0.6	0,0	20deg, junk

tracker slightly off, adjusting current, run stopped

2007-07-29 10:47 **ECAL noisy**

noisy ECAL FE in run 331094



File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/29.07/2007-07-29T10:47:02-00.gif

2007-07-29 10:54 Beni, Martin, Ariane **pi- 18 GeV**

331097	beamData	10x10	-18 GeV	pi-	522	4mm Pb	Air	0.6	0,0	20deg

2500 pps
DAQ rate: 85 Hz
150k events

2007-07-29 11:25 Beni, Martin, Ariane **pi- 25 GeV**

331098	beamData	10x10	-25 GeV	pi-	526	4mm Pb	Air	0.35	0,0	20deg

4300 pps
DAQ rate: 85 Hz
150k events

2007-07-29 12:08 Beni, Martin, Ariane **e- 25 GeV**

331099	beamData	10x10	-25 GeV	e-	526	Air	Air	0.35	0,0	20deg

5100 pps
DAQ rate: 83 Hz
200k events

beam went off for a few seconds

2007-07-29 12:50 Beni, Martin, Ariane **junk run**

331100	beamData	10x10	-18 GeV	e-	522	Air	Air	0.35	0,0	20deg, junk

beam slightly off, new run started

2007-07-29 12:56 Beni, Martin, Ariane **e- 18 GeV**

331101	beamData	10x10	-18 GeV	e-	522	Air	Air	0.35	0,0	20deg

5100 pps
DAQ rate: 85 Hz
200k events

changed momentum collimators according to general to obtain acceptable pps rate

2007-07-29 13:51 Beni, Martin, Ariane **e- 8 GeV**

331103	beamData	10x10	-8 GeV	e-	525	Air	Air	2.3	0,0	20deg

1700 pps
DAQ rate: 75 Hz
200k events

2007-07-30 00:00 Roman, Beni **new shift**

2007-07-30 00:15 Roman, Beni **calibration**

331137	ahcGain	
331138	ahcCmLedVcalibScan	
331139	ahcPmLedVcalibScan	
331140	ahcCmNoise	-e 20000
331141	ahcPmNoise	-e 20000

2007-07-30 01:12 Roman, Beni **10 GeV pion**

331142	beamData	10x10	-10GeV	pi-	520	8mm Pb	air	2.0	0,0	20°, junk
331143	beamData	10x10	-10GeV	pi-	520	8mm Pb	air	2.0	0,0	20°, junk

runs for TRIM05 adjustment
10x10 trigger = 1.4k/spill
DAQ = 60Hz

2007-07-30 01:37 Roman, Beni **10 GeV pion**

331144	beamData	10x10	-10GeV	pi-	520	8mm Pb	air	2.0	0,0	20°, 40k

run stopped to check on noisy ECAL layer 9

2007-07-30 01:39 Roman, Beni **access to check on ECAL noise**

2007-07-30 01:57 Roman, Beni **no more checklist**

We run out of CALICE TESTBEAM 2007 checklist sheets.

2007-07-30 02:02 Beni **new PIN baseboard**

I replaced the PIN-diode readout HBAB, that got damaged during the rotation. The PIN-HABs are still the same.

The noise looks goog again.

2007-07-30 02:25 Roman **Noisy layer 9 fixed**

The noise in layer 9 (central part) has been fixed by replugging the power cables,

After the intervention the layer 1 shows a slightly enhanced noise.

Roman

2007-07-30 02:26 Roman, Beni **10GeV pion**

331145	beamData	10x10	-10GeV	pi-	520	8mm Pb	air	2.0	0,0	20°, 120k

Revived CMBs @ beginning of run. I did some test with large VCalib signals before. Seems this can switch the boards off.

2007-07-30 03:00 Roman, Beni

331146	beamData	10x10	-8GeV	pi-	525	8mm Pb	air	2.3	0,0	20°, junk
331147	beamData	10x10	-8GeV	pi-	525	8mm Pb	air	2.3	0,0	20°, junk

TRIM06 adjustment runs
TRIM06 is -4.5 A now

2007-07-30 03:02 Roman, Beni **8 GeV pion**

331148	beamData	10x10	-8GeV	pi-	525	8mm Pb	air	2.3	0,0	20°, 156k

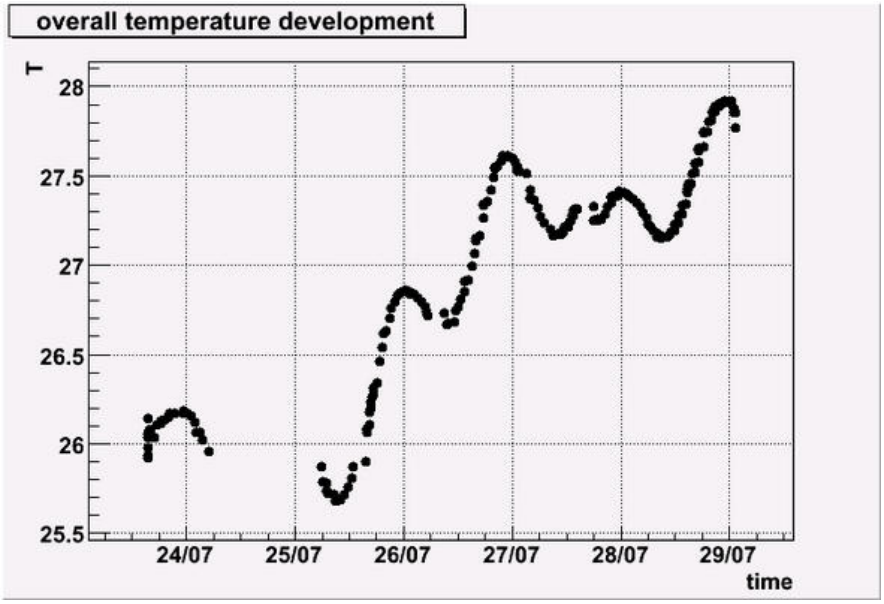
10x10 trigger = 560/spill
DAQ = 35 Hz

The low rate comes from a reduced rate on the main target T4. The user of T10 asked for a reduced rate and this reduces the rate on T4, too. But the controlroom promised to do check if they can improve the situation without disturbing the others.

We get now 660 triggers/spill, DAQ = 40 Hz

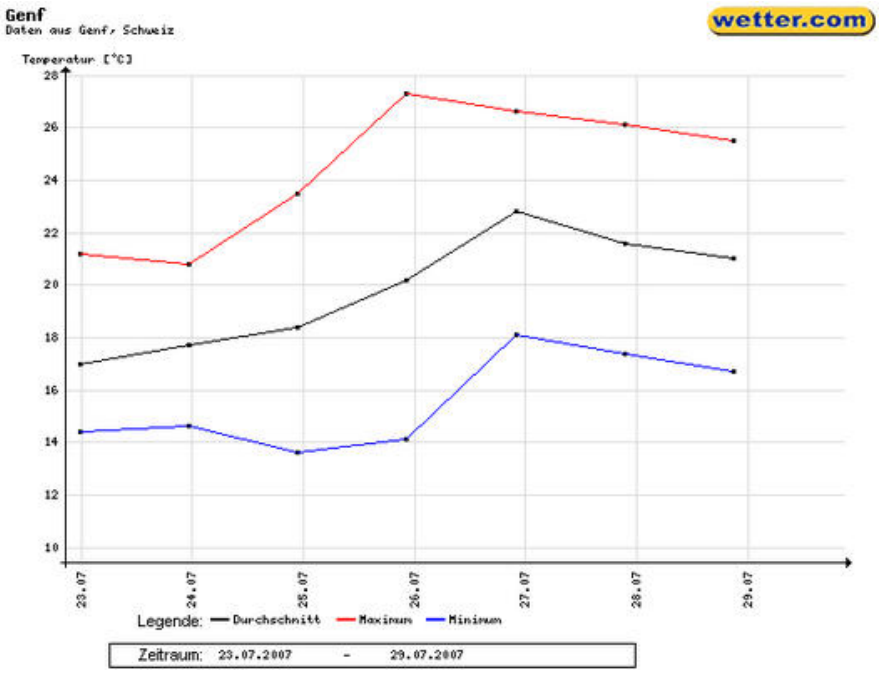
2007-07-30 04:07 Beni **temperature development**

Actual temperature development in the detector. The records starts after the CMB mapping was corrected.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/31/30.07/2007-07-30T04:07:55-00.gif

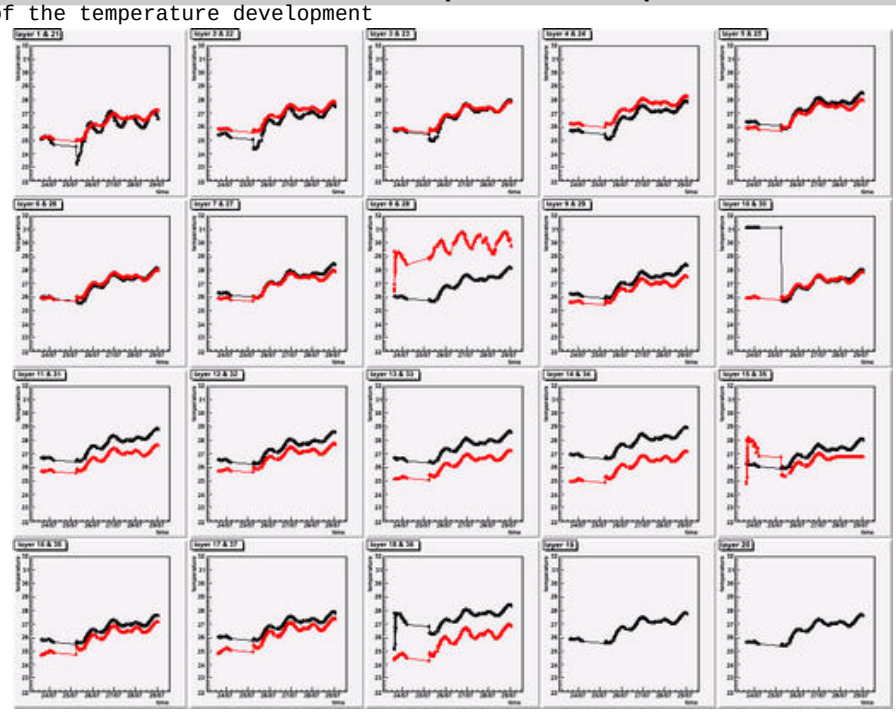
2007-07-30 04:10 Beni **Geneva temperature development**



File: http://ttfinfo.desy.de/CALICEelog/data/2007/31/30.07/2007-07-30T04:10:05-01.png

2007-07-30 04:12 Beni **temperature development**

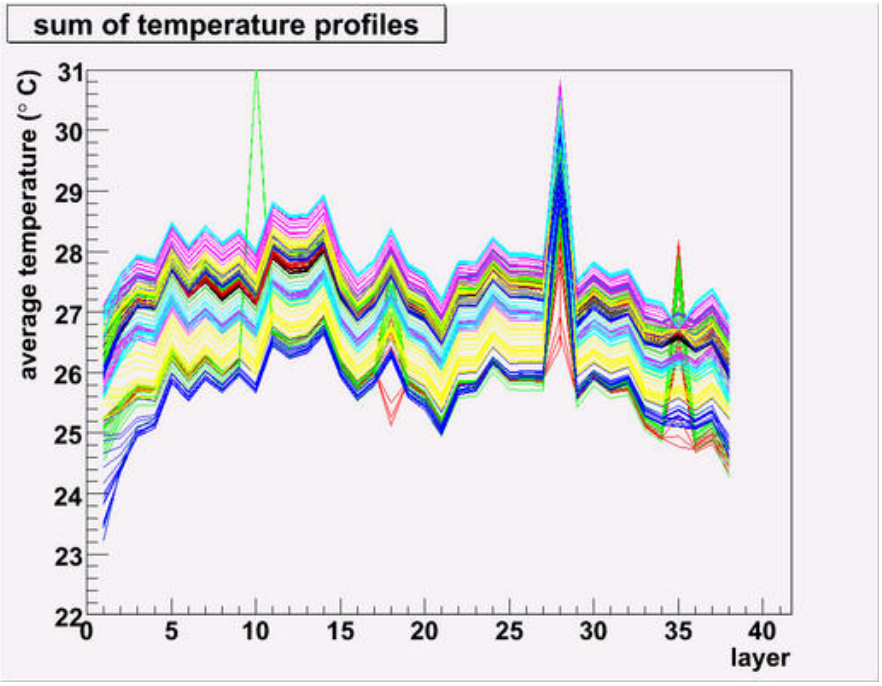
detailed view of the temperature development



File: http://ttfinfo.desy.de/CALICEelog/data/2007/31/30.07/2007-07-30T04:12:52-00.gif

2007-07-30 04:14 Beni **temperature profile development**

This plots shows all temperature profiles available since the mapping correction overlayed. The variations happen in parallel on all sensors, except the three layers with readout problems (10,28 & 35). The system seems to be in good equilibrium.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/31/30.07/2007-07-30T04:14:12-00.gif

⚠ 2007-07-30 05:03 Roman, Beni **6 GeV run**

331149	beamData	10x10	-6GeV	e-/pi-	023	air	air	3.0	0,0	20

The 6GeV beam-file did not work anymore.

We had order of 20 particles per spill almost independent of the collimator-settings. A look into the wire-chambers showed that the beam got lost somewhere in the vertical plane. After optimizing the rate in our experimental counter by changing trim01 and trim02 we now get 5.7k events per spill.

We checked the energy measured by the detectors and it is within the fit errors the same as last night. Therfore, we will run for the rest of the night with the changed trim settings.

changed settings for this run compared to beam-file:
TRIM01 = 1A
TRIM02 = -6A
COLL01 = COLL05 = COLL10 = +-15

After this optimization, the beam is already centerd in x and y without using TRIM05 and TRIM06.

2007-07-30 08:00 Erika

331150	beamData	10x10	-6GeV	e-/pi-	023	air	air	3.0	0,0	20
331151	beamData	10x10	-6GeV	e-/pi-	023	air	air	3.0	0,0	20
331152	beamData	10x10	-6GeV	e-/pi-	023	air	air	3.0	0,0	20
331153	beamData	10x10	-6GeV	e-/pi-	023	air	air	3.0	0,0	20

stopped run 331153 with 220kev.
TCMT channels 3,4 and few HCAL channels have lost DAQ settings
reloaded them
the morning rate -6GeV is still 5500 pps

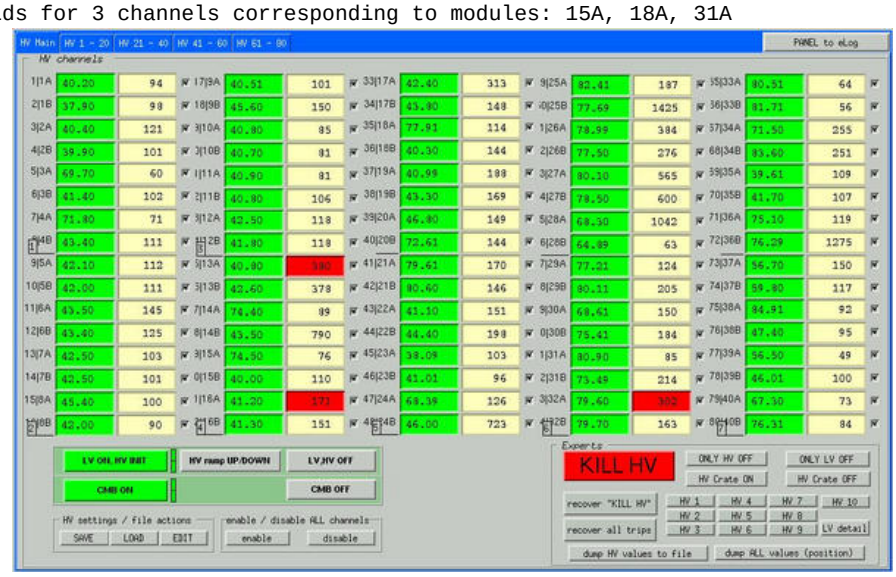
2007-07-30 08:12 Erika, Ariane

331154	beamData	10x10	-6GeV	e-/pi-	mixed	023	air	air	3.0	0,0	20deg, short

just checking that all was fine with the reloaded DAC settings

2007-07-30 08:20 caliceon@calicehcal02.cern.ch **check current thresholds**
(CALICE user)

change thresholds for 3 channels corresponding to modules: 15A, 18A, 31A



File: http://ttfinfo.desy.de/CALICEelog/data/2007/31/30.07/2007-07-30T08:20:02-00.jpg

2007-07-30 08:21 Erika, Ariane

331155	beamData	10x10	-18GeV	pi-	522	4mm Pb	air	0.6	0,0	20deg

2007-07-30 09:15 **wobbling change**

change wobblings to -80GeV

2007-07-30 09:36 Ariane, Erika

331156	ahcGain

2007-07-30 09:43 Ariane, Beni, Nanda **Muon Calibration run**

331157	beamData	20x20	-80 GeV	mu-	555	Air	Air	0.6	0,0	20 deg

muon calibration, beam dump closed
20x20 trigger rate 5000 pps, DAQ rate 90 Hz
200 kevt

no beam -> stop run to load new vcalib settings for

layers	old vcalib	new vcalib
18	38000	36000
25	46000	48000
28	36000	38000

2007-07-30 10:25 Ariane, Beni, Nanda **Muon Calibration run**

331158	beamData	20x20	-80GeV	mu-	555	Air	Air	0.6	0,0	20 deg

250 kevt

LED signal in layer 25 is fine now,
layer 28,29,35 still don't show any LED signal
few layers show LED signals above 18000 ADC channels, try to lower these:

layer	old vcalib	new vcalib
17	33000	32000
18	36000	34000
26	33000	32000
27	33000	32000
31	33000	32000
32	33000	32000
33	31000	30000

2007-07-30 11:21 Beni **swap of data disk**

changed:
• data link on calice00 to data01

- data link for online monitor on caliceserv to data01
- diskSpaceMonitor to watch data01
- changed cogri script to data01

2007-07-30 11:33 Ariane, Beni, Nanda **Muon Calibration run**

331161	beamData	20x20	-80GeV	mu-	555	Air	Air	0.6	0,0	20 deg	150 kevt
331160	beamData	20x20	-80GeV	mu-	555	Air	Air	0.6	0,0	20 deg	250 kevt
331159	beamData	20x20	-80GeV	mu-	555	Air	Air	0.6	0,0	20 deg	250 kevt

muon calibration, beam dump closed
20x20 trigger rate 5000 pps, DAQ rate 90 Hz

2007-07-30 13:28 Ariane, Nanda **35 GeV pion**

331163	beamData	10x10	-35GeV	pi-	515	4mm Pb	Air	0.6	0,0	20 deg

10x10 trigger rate 1200 pps
DAQ rate 50 Hz
150 kevt

adjusted DAC setting for LEDs in layer 28, which are currently set manually from 110 to 130
Now we see light in this layer in the online monitoring
-> only 2 layers without signal left :)

2007-07-30 14:22 Ariane, Nanda **pi- run**

331166	beamData	10x10	-45GeV	pi-	518	4mm Pb	Air	0.1	0,0	20 deg
331165	beamData	10x10	-45GeV	pi-	518	4mm Pb	Air	0.1	0,0	20 deg, junk
331164	beamData	10x10	-45GeV	pi-	518	4mm Pb	Air	0.1	0,0	20 deg, junk

331164 and 331165: beamtuning, offset in x, changed trim06 from 15->10->5 A

331166:
10x10 trigger rate: 2 kpps
DAQ rate: 60 Hz
170 kevt

2007-07-30 15:10 Ariane, Nanda **pi- run**

331168	beamData	10x10	-80GeV	pi-	510	4mm Pb	Air	0.1	0,0	20 deg

10x10 trigger rate: 2.5 kpps
DAQ rate: 65 Hz
160 kevt

2007-07-30 15:45 Ariane, Nanda **pi- run**

331169	beamData	10x10	-40GeV	pi-	514	4mm Pb	Air	0.1	0,0	20 deg

closed collimators 1,5,6,10&11 from 12 to 5 mm
10x10 trigger rate: 7.4 kpps
DAQ rate: 80 Hz

2007-07-30 16:33 Alex/Catherine

331171	beamData	10x10	-50GeV	pi-	512	4mm Pb	Air	0.1	0,0	20 deg
331170	beamData	10x10	-50GeV	pi-	512	4mm Pb	Air	0.1	0,0	20 deg,junk

closed collimators 1,5,6,10&11 from 6 to 5 mm
10x10 trigger rate: 6.1 kpps
DAQ rate: 85 Hz

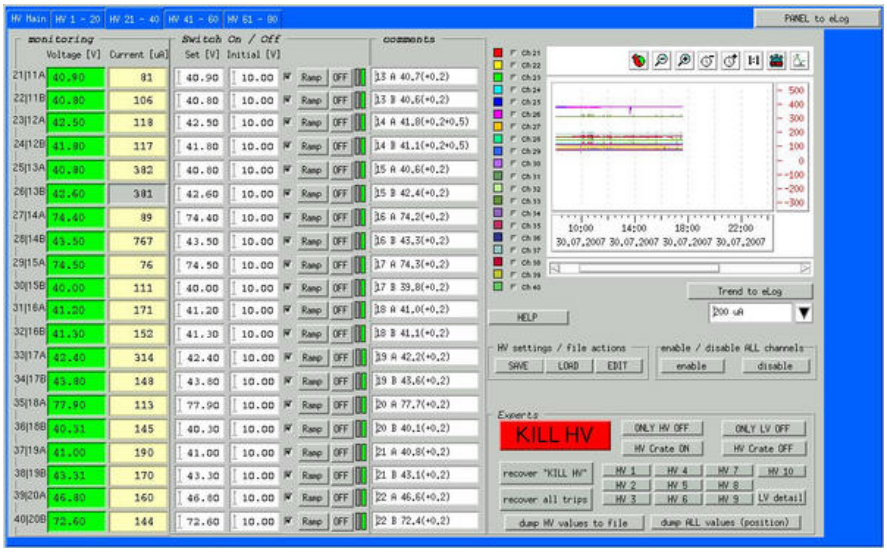
2007-07-30 17:13 Alex/Catherine **100 GeV pion run**

331172	beamData	10x10	-100GeV	pi-	516	4mm Pb	Air	0.1	0,0	20 deg

closed collimators 1,5,6,10&11 from 5 to 4.8 mm
10x10 trigger rate: 7.2 kpps
DAQ rate: 88 Hz

2007-07-30 17:22 **change current threshold**

change current threshold for module 15 B



File: http://ttfinfo.desy.de/CALICEelog/data/2007/31/30.07/2007-07-30T17:22:02-00.jpg

2007-07-30 17:33 Alex/Catherine **35 GeV pion**

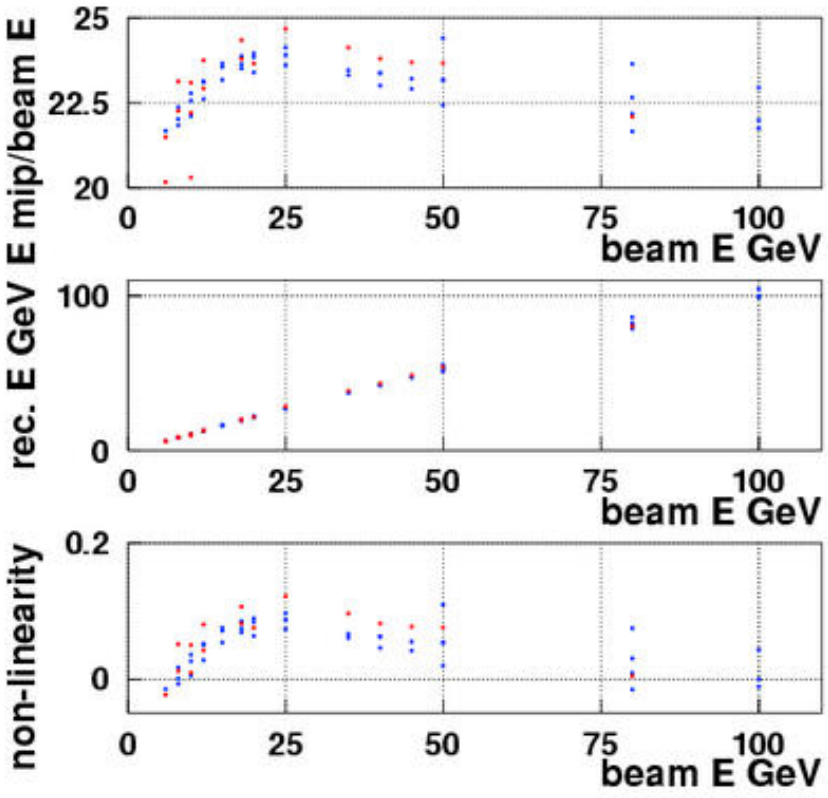
331173	beamData	10x10	-35GeV	pi-	515	4mm Pb	Air	0.1	0,0	20 deg

10x10 trigger rate: 1.5 kpps
DAQ rate: 55 Hz

2007-07-30 17:33 Erika **20 deg HCAL energy**

Summary of pion energy deposited in HCAL for 20deg angle (red dots) compared to 0 deg (blue angle).

From the last muon run the muon peak is found at 50 mip with 20 deg angle (noise of 5 mip)
while for the 0 deg angle it was more around 42 mip (same noise).



File: http://ttfinfo.desy.de/CALICEelog/data/2007/31/30.07/2007-07-30T17:33:54-00.pdf

2007-07-30 18:21 Alex/Catherine **45 GeV pion run**

331175	beamData	10x10	-45GeV	pi-	515	4mm Pb	Air	0.1	0,0	20 deg, changed trim06 from 15 to 10
331174	beamData	10x10	-45GeV	pi-	515	4mm Pb	Air	0.1	0,0	20 deg, junk

10x10 trigger rate: 1.4 kpps
DAQ rate: 65 Hz

2007-07-30 19:16 Alex/Catherine **80 GeV**

331176	beamData	10x10	-80GeV	pi-	510	4mm Pb	Air	0.1	0,0	20 deg, changed trim06 from 15 to 10

Noisy ECAL layer: 24

2007-07-30 20:04 Alex/Catherine **15 GeV electron run**

331184	beamData	10x10	-15GeV	e-	536	Air	6mm Pb	0.1	0,0	20 deg, junk
331183	beamData	10x10	-15GeV	e-	536	Air	6mm Pb	0.1	0,0	20 deg, junk
331182	beamData	10x10	-15GeV	e-	536	Air	6mm Pb	0.1	0,0	20 deg, junk
331181	beamData	10x10	-15GeV	e-	536	Air	6mm Pb	0.1	0,0	20 deg, junk
331180	beamData	10x10	-15GeV	e-	536	Air	6mm Pb	0.1	0,0	20 deg, junk
331179	beamData	10x10	-15GeV	e-	536	Air	6mm Pb	0.1	0,0	20 deg, junk
331178	beamData	10x10	-15GeV	e-	536	Air	6mm Pb	0.1	0,0	20 deg, junk
331177	beamData	10x10	-15GeV	e-	536	Air	6mm Pb	0.1	0,0	20 deg, junk

Somehow we managed to initiate a radiation alarm by loading file 536 (the previous was 510). Three bending magnets were off. With the friendly help of Roman we managed to reset it (by calling the control room).
But now having loaded file 536 and we do not see anything in the tracker in the online monitor. Are we totally off position?
We played a bit with the settings for TRIM05 and TRIM06, also loading yesterday's settings, but with no effect.

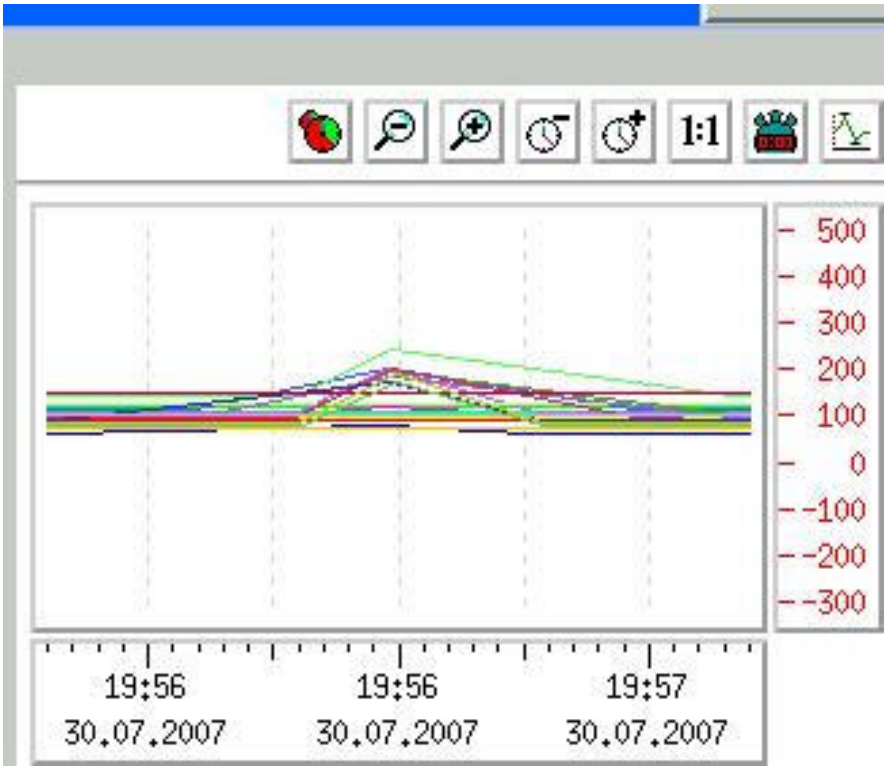
ECAL was off before run 331182, turned it on.

Is the Tracker off? Yes Tracker had tripped. Ramped up Channels 36,37,38.
Roman takes over the ECAL slow control via VNC to keep an eye on them, since currents are still creeping up.

2007-07-30 21:00 Erika **loading of files**

A possible explanation for the too high rate is the sequence of commands executed to change from pions to electrons and vice versa. It is advisable to first insert the absorber leaving the target in (as to maximum screan the detector). After this one can load collimators only from a file by de-selecting the magnets when the program asks.
Finally the magnets can be set and the target can be removed. This is a very safe procedure which is normally not necessary when switching between files of various energy.

2007-07-30 21:42 **Currents in HV10-20 during time of the radiation alarm**



File: http://ttfinfo.desy.de/CALICEelog/data/2007/31/30.07/2007-07-30T21:42:02-00.jpg

2007-07-30 22:05 Alex/Catherine **15 GeV electron run**

331185	beamData	10x10	-15GeV	e-	536	Air	6mm Pb	0.1	0,0	20 deg, junk run
331186	beamData	10x10	-15GeV	e-	536	Air	6mm Pb	0.1	0,0	20 deg

Ok, the scalers where all off, after a second access they are on again now, and we see a rate of 2k pps. The trackers also work again, we did some positioning, so far everything seems to be fine. As Roman just mentioned ECAL is also stable now.

2007-07-30 22:08 Roman **Cogri Scripts restarted -> Copy to desy**

I have realized that the copy to desy did get stuck while copying run
331172 (I don't know why!!!).

I have stopped and restarted the scripts (with fingers crossed).
It seems that copying has resumed successfully.

It looks as if the 'slow' dcache doors at desy sometimes block transfers
completely. The problem with the bandwidth differences is under heavy
investigation by desy it.

Control over cogri scripts is handed back to shift crew.

Roman

2007-07-30 22:30 Alex/Catherine **calibration runs**

331187	ahcGain									

No beam...

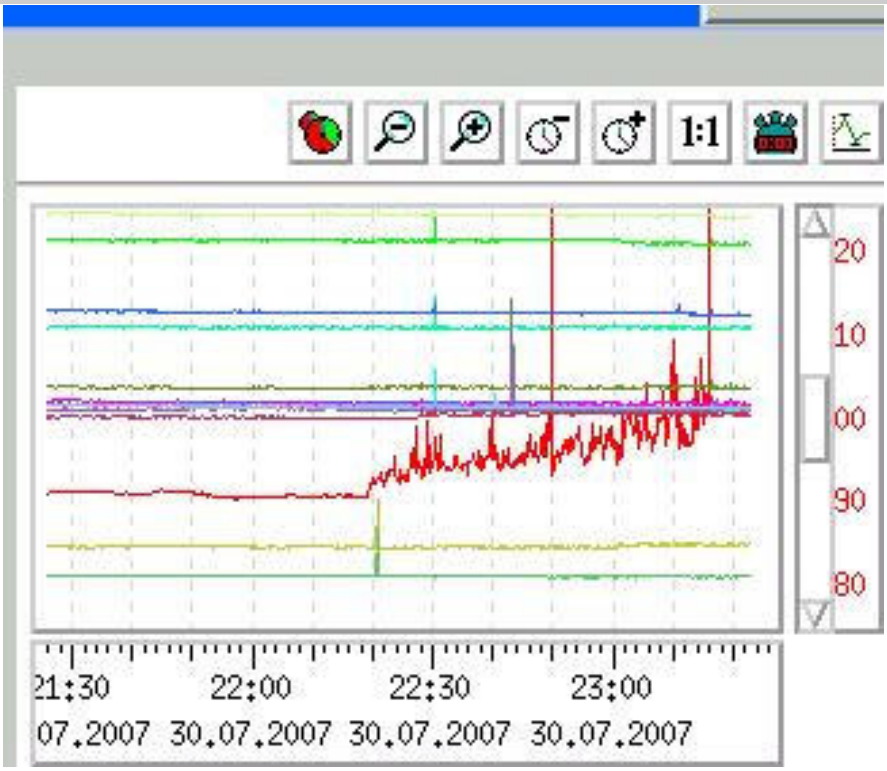
2007-07-30 23:01 Alex/Catherine

331188	ahcCmLedVoltScan	10x10	-15GeV	e-	536	Air	6mm Pb	0.1	0,0	20 deg, junk
331189	beamData	10x10	-15GeV	e-	536	Air	6mm Pb	0.1	0,0	20 deg, junk
331190	Reload HCAL DAC Settings									HCAL LEDs 11,23,24,25,27,29,35 were off
331191	beamData	10x10	-15GeV	e-	536	Air	6mm Pb	0.1	0,0	20 deg
331192	Reload									high

	HCAL DAC Settings									current in mod 3A, leds still off
331193	beamData	10x10	-15GeV	e-	536	Air	6mm Pb	0.1	0,0	20 deg, junk, 14k
331194	beamData	10x10	-15GeV	e-	536	Air	6mm Pb	0.1	0,0	20 deg

LEDs (but 29 and 35) are ok now, intervention in the CMB panel was necessary.

2007-07-30 23:58 caliceon@calicehcal-dcon (CALICE user) **HV1-20 high current in HCAL channel, Layer 3A**



File: http://ttfinfo.desy.de/CALICEelog/data/2007/31/30.07/2007-07-30T23:58:45-00.jpg

2007-07-31 00:03 Alex/Catherine **20 GeV e- run**

331195	beamData	10x10	-20GeV	e-	533	Air	6mm Pb	0.1	0,0	20 deg, positioning...

2007-07-31 00:12 Alex/Catherine **20 GeV pion run**

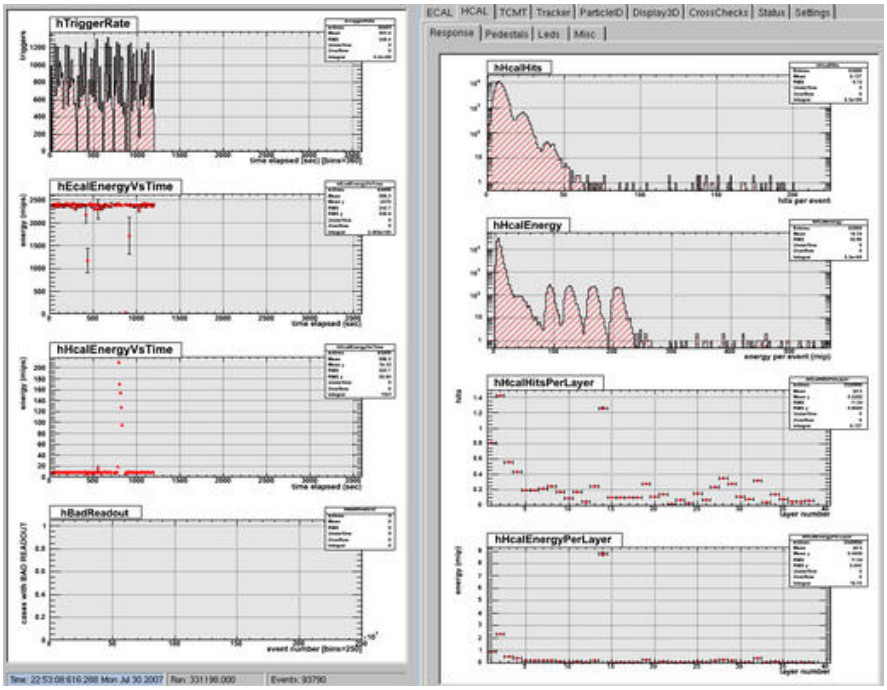
331196	beamData	10x10	-20GeV	e-	533	Air	6mm Pb	0.1	0,0	20 deg

2007-07-31 00:28 Beni, Lukas

331197	beamData	10x10	-20GeV	e-	533	Air	6mm Pb	0.7	0,0	20 deg
331198	beamData	10x10	-20GeV	e-	533	Air	6mm Pb	0.7	0,0	20 deg, stopped after 169k ev.

2007-07-31 01:05 caliceon@calicesemcal-dcon **HCAL noise**

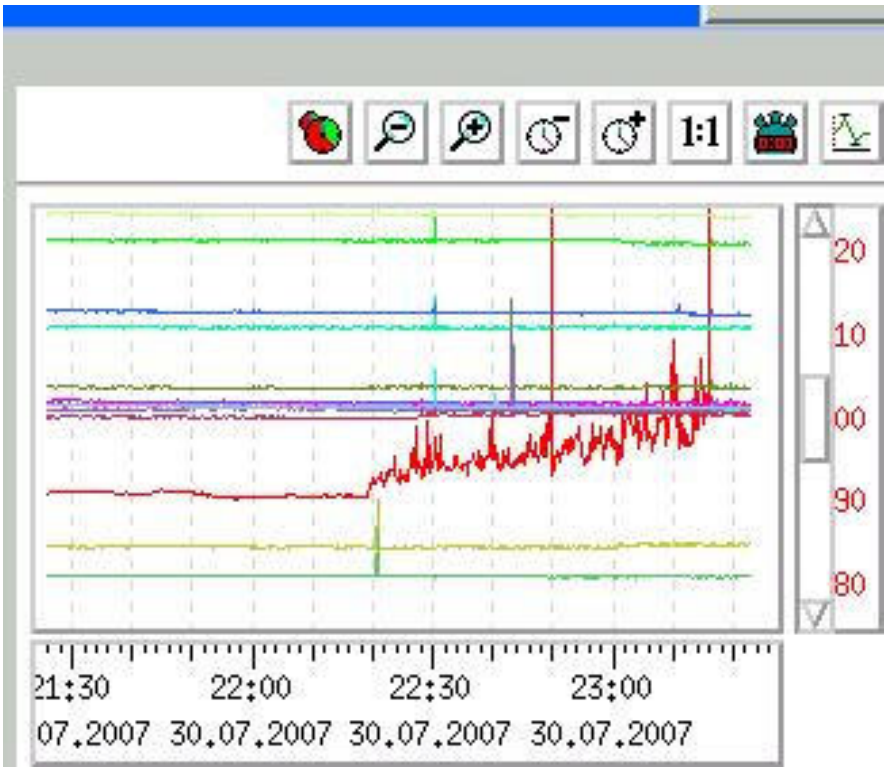
During current run some noise effect showed up for short time. Most probably it originates from layer 14 (module 16).



File: http://ttfinfo.desy.de/CALICEelog/data/2007/31/31.07/2007-07-31T01:05:03-00.gif

2007-07-31 01:05 caliceon@calicehdaq1.cern.ch **HV1-20 high current in HCAL channel**
(CALICE user)

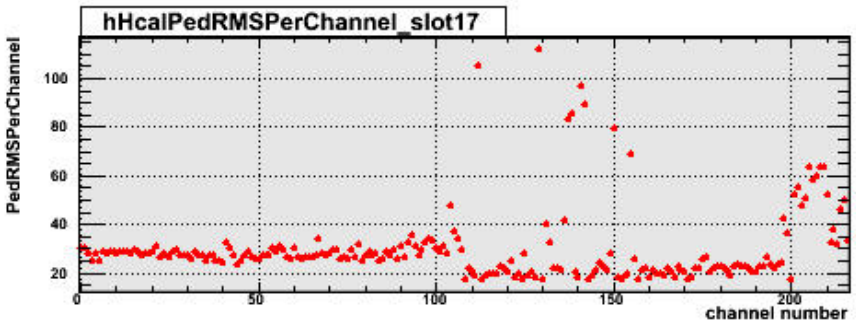
This mysterious picture suddenly appeared in logbook ten times. Strange thing happenes on night shifts.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/31/31.07/2007-07-31T01:05:14-00.jpg

2007-07-31 01:14 **HCAL noise**

I see a unusual noise in the corresponding FE. Reloading DAC settings, but no effect on module current.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/31/31.07/2007-07-31T01:14:02-00.gif

2007-07-31 01:17 caliceon@calicehcalsc02.cern.ch (CALICE user)

331199	DAC reload

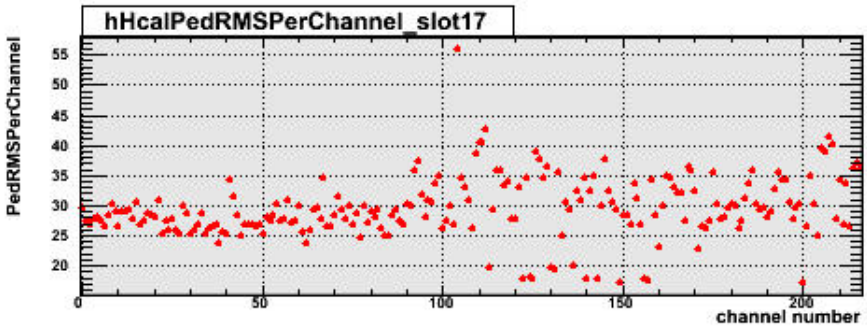
2007-07-31 01:17 caliceon@calicehcalsc02.cern.ch (CALICE user)

331200	beamData	10x10	-20GeV	e-	533	Air	6mm Pb	0.7	0,0	20 deg

Stopped after 38k ev.

2007-07-31 01:21 **HCAL noise**

After reloading DAC settings the noise looks different, even if there is no effect on the module current.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/31/31.07/2007-07-31T01:21:02-00.gif

2007-07-31 01:21 Beni, Lukas

331201	beamData	10x10	-25GeV	e-	535	Air	6mm Pb	0.42	0,0	20 deg

- 2.7k pps
- Stopped after 10k events.
- Adjusting position, TRM05 set to -3.0

2007-07-31 01:30 Beni, Lukas

331202	beamData	10x10	-25GeV	e-	535	Air	6mm Pb	0.42	0,0	20 deg

2007-07-31 02:13 Beni, Lukas

331203	beamData	10x10	-30GeV	e-	534	Air	6mm Pb	0.3	0,0	20 deg

- 2.2k pps
- Stopped because of beam adjustments.
- TRM05 adjusted to -2.5

2007-07-31 02:19 Beni, Lukas

331204	beamData	10x10	-30GeV	e-	534	Air	6mm Pb	0.3	0,0	20 deg

- 2.15k pps
- 200k ev.

2007-07-31 03:01 Beni, Lukas

331205	beamData	10x10	-40GeV	e-	531	Air	6mm Pb	0.1	0,0	20 deg

•1.8k pps
•Aborted because of adjustments.
•TRM06 = 20, TRM05 = -3

2007-07-31 03:06 Beni, Lukas

331206	beamData	10x10	-40GeV	e-	531	Air	6mm Pb	0.1	0,0	20 deg

•Aborted, further X adjustments, TRM06 = 27.

2007-07-31 03:11 Beni, Lukas

331207	beamData	10x10	-40GeV	e-	531	Air	6mm Pb	0.1	0,0	20 deg

•1.8k pps.
•200k ev.

2007-07-31 03:54 Beni, Lukas

331208	beamData	10x10	-50GeV	e-	530	Air	6mm Pb	0.1	0,0	20 deg

•1.8k pps
•Aborted after 10k ev
•Adjusted TRM05 = -5 and TRM06 = 30

2007-07-31 04:04 Beni, Lukas

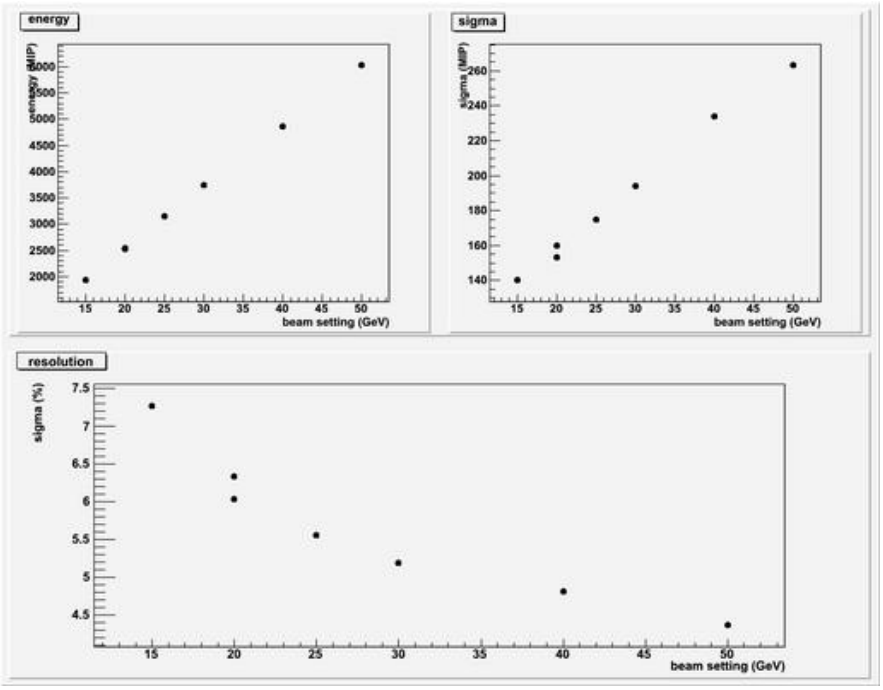
331209	beamData	10x10	-50GeV	e-	530	Air	6mm Pb	0.1	0,0	20 deg

•1.8k pps
•beam off after 52k ev

2007-07-31 04:12 caliceon@calicesrv1.fnal.gov **results for electron runs**

fitted energies for electron runs

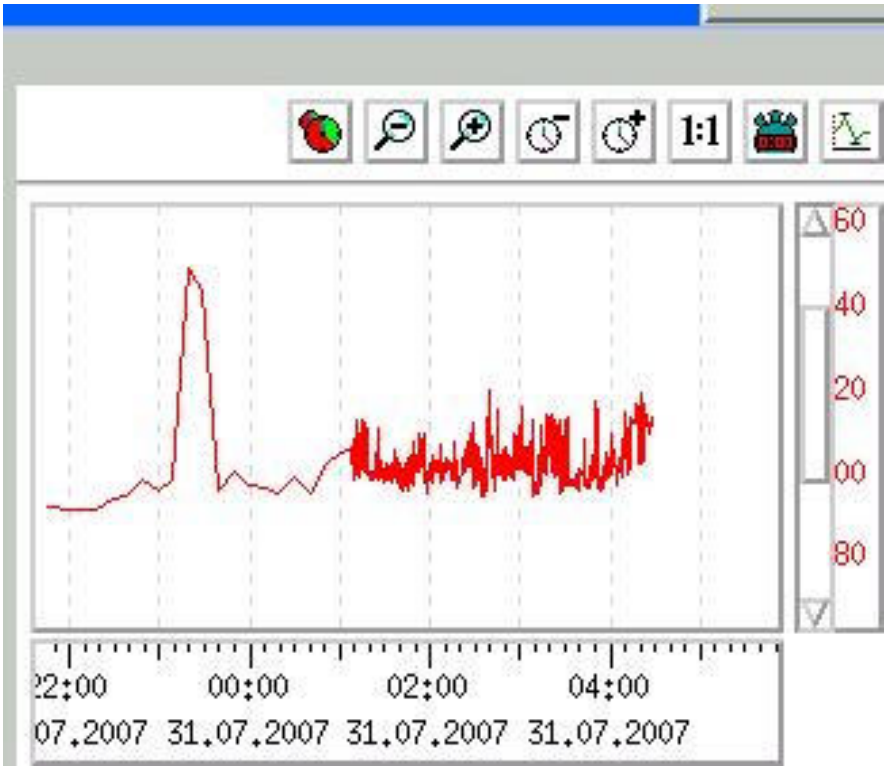
run	beam	mean	sigma
331194	15	1927	140
331196	20	2528	160
331198	20	2536	153
331202	25	3152	175
331204	30	3740	194
331207	40	4862	234
331209	50	6023	263



File: http://ttfinfo.desy.de/CALICEelog/data/2007/31/31.07/2007-07-31T04:12:02-00.gif

2007-07-31 04:15 **module 1A current**

The current of module 1A is unsteady.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/31/31.07/2007-07-31T04:15:02-00.jpg

2007-07-31 04:20 Beni, Lukas

331210	ahcCmLedVcalibScan

2007-07-31 04:24 Beni, Lukas

331211	beamData	10x10	-50GeV	e-	530	Air	6mm Pb	0.1	0,0	20 deg

•1.8k pps
•200k ev

2007-07-31 05:07

331212	ahcPmLedVcalibScan
331213	ahcGain
331214	ahcPmNoise

2007-07-31 05:41 Beni, Lukas

331215	beamData	10x10	-40GeV	pi-	514	4mm Pb	Air	0.1	0,0	20 deg

•7.3k pps
•stopped after 11.5k ev
•adjusted TRIM05 = -8 and TRIM06 = -8

2007-07-31 05:45 Beni, Lukas

331216	beamData	10x10	-40GeV	pi-	514	4mm Pb	Air	0.1	0,0	20 deg

•stopped after 12k ev
•further adjustments: TRIM06 = -4 and TRIM05 = -4

2007-07-31 05:49 Beni, Lukas

331217	beamData	10x10	-40GeV	pi-	514	4mm Pb	Air	0.1	0,0	20 deg

•7.1k pps
•150k ev

2007-07-31 06:16 Beni, Lukas

331218	beamData	10x10	-50GeV	pi-	512	4mm Pb	Air	0.1	0,0	20 deg

•4.5k pps
•aborted because of position corrections: TRIM05 = -5 and TRIM06 = -5

2007-07-31 06:23 Beni, Lukas

331219	beamData	10x10	-50GeV	pi-	512	4mm Pb	Air	0.1	0,0	20 deg

•4.5k pps
•150k ev

2007-07-31 06:50 Beni, Lukas

331220	beamData	10x10	-100GeV	pi-	516	4mm Pb	Air	0.1	0,0	20 deg

•2.8k pps
•stopped after 11k ev
•position adjustments: TRIM05 = -12 and TRIM06 = -8

2007-07-31 06:58 Beni, Lukas

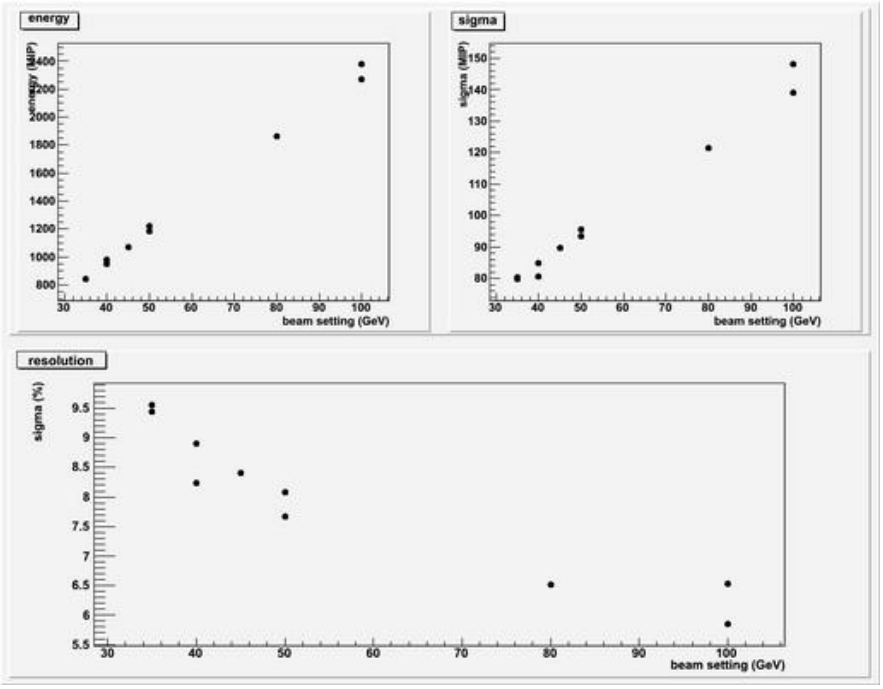
331221	beamData	10x10	-100GeV	pi-	516	4mm Pb	Air	0.1	0,0	20 deg

•150k ev

2007-07-31 07:15 caliceon@calicesetup.fo **results for pion runs**

fitted energies for pion runs

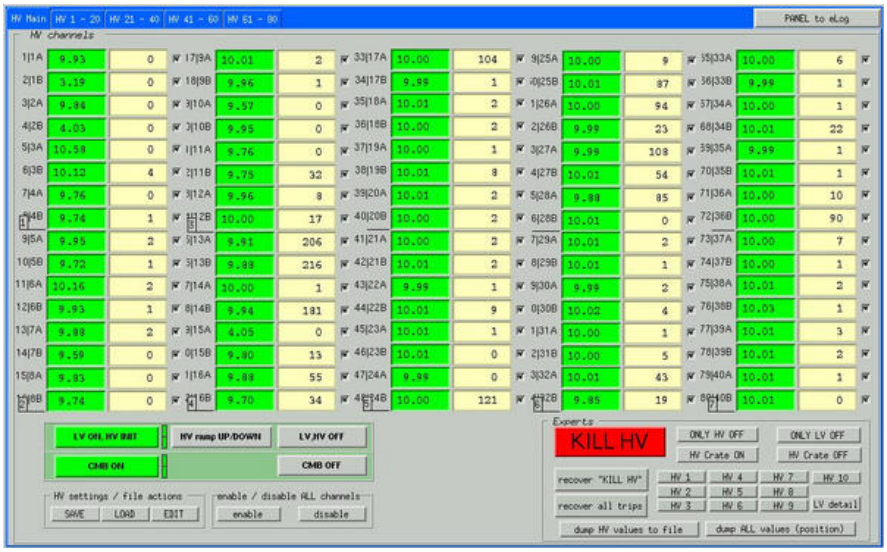
run	beam	mean	sigma
331163	35	844	79.7
331166	45	1067	89.7
331168	80	1865	121.4
331169	40	952	84.8
331171	50	1183	95.6
331172	100	2268	148.
331173	35	839	80.2
331217	40	980	80.7
331219	50	1218	93.3
331221	100	2376	139



File: http://ttfinfo.desy.de/CALICEelog/data/2007/31/31.07/2007-07-31T07:15:02-00.gif

2007-07-31 07:29 **done**

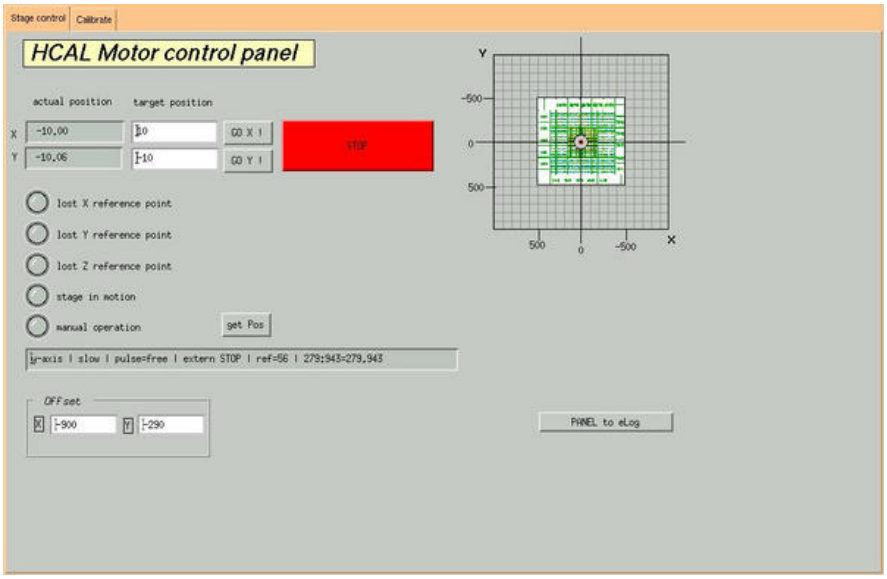
switch of HV, start ECAL saftey



File: http://ttfinfo.desy.de/CALICEelog/data/2007/31/31.07/2007-07-31T07:29:02-00.jpg

2007-07-31 16:42 **HCAL stage back at 0,0**

```
0 deg angle  and 0,0 position
```



File: http://ttfinfo.desy.de/CALICEelog/data/2007/31/31.07/2007-07-31T16:42:02-00.jpg

2007-07-27 00:07 Nanda, Roman **Pion run**

330984	beamData	10x10	-45GeV	pi-	518	4mm Pb	Air	0.1	0,0	10deg

150k events.

2007-07-27 00:43 Nanda, Roman **pion run**

330985	beamData	10x10	-80GeV	pi-	510	4mm Pb	Air	0.1	0,0	10deg

150k events.

2007-07-27 01:17 Nanda, Roman **e- run**

330986	beamData	10x10	-50GeV	e-	510	Air	6mm Pb	0.1	0,0	10deg

200 k.

2007-07-27 02:07 Nanda, Roman **e- run**

330987	beamData	10x10	-40GeV	e-	531	Air	6mm Pb	0.1	0,0	10deg

~40k events.

Stopped since we want to center the beam in x in the chambers..

2007-07-27 02:18 Nanda, Roman

330988	beamData	10x10	-40GeV	e-	531	Air	6mm Pb	0.1	0,0	10deg

Testrun to adjust beam position.
switched trim 06 from 12.0 to 2.0A

2007-07-27 02:23 Nanda, Roman

330989	beamData	10x10	-40GeV	e-	531	Air	6mm Pb	0.1	0,0	10deg

Testrun to adjust beam position.
switched trim 06 to 22.0A

2007-07-27 02:26 Nanda, Roman **electron run**

330990	beamData	10x10	-40GeV	e-	531	Air	6mm Pb	0.1	0,0	10deg

switched trim 06 to 25.0A
200 kevt

2007-07-27 03:26 Nanda, Roman **e- run**

330991	beamData	10x10	-30GeV	e-	534	Air	6mm Pb	0.3	0,0	10deg
330992	beamData	10x10	-30GeV	e-	534	Air	6mm Pb	0.3	0,0	10deg

Short runs to adjust beam position.

2007-07-27 03:28 Nanda, Roman **e- run**

330993	beamData	10x10	-30GeV	e-	534	Air	6mm Pb	0.3	0,0	10deg

200 kevt

2007-07-27 04:14 Nanda, Roman **e- run**

330994	beamData	10x10	-25GeV	e-	535	Air	6mm Pb	0.41	0,0	10deg

230 kevt

2007-07-27 05:05 Nanda, Roman **e- run**

330995	beamData	10x10	-20GeV	e-	533	Air	6mm Pb	0.68	0,0	10deg

200 kevt

2007-07-27 05:49 Nanda, Roman **e- run**

330996	beamData	10x10	-15GeV	e-	536	Air	6mm Pb	1.0	0,0	10deg

200 kEvents.

2007-07-27 06:49 Nanda, Roman **calibration runs**

330997	ahcGain	
330998	ahcCmNoise	-e 20000
330999	ahcPmNoise	-e 20000
331000	ahcCmLedVcalibScan	
331001	ahcPmLedVcalibScan	

2007-07-27 09:26 Erika **No beam**

from 8:00 to 12:00 no beam to SPS

2007-07-27 11:03 Erika

331002	ahcGain
331003	ahcPmLedVcalibscan
331004	ahcCmLedVcalibscan

2007-07-27 11:49 Erika **20x20 trigger config**

setup the DAQ for 20x20 trigger

2007-07-27 13:08 Erika,Fabrizio,Marco **20x20 muons**

331005	beamData	20x20	-80GeV	mu-	555	Air	Air	0.0	0,0	10deg 10k events

DAQ rate: 80 Hz
6600 pps

2007-07-27 13:27 Erika,Fabrizio,Marco **20x20 muons**

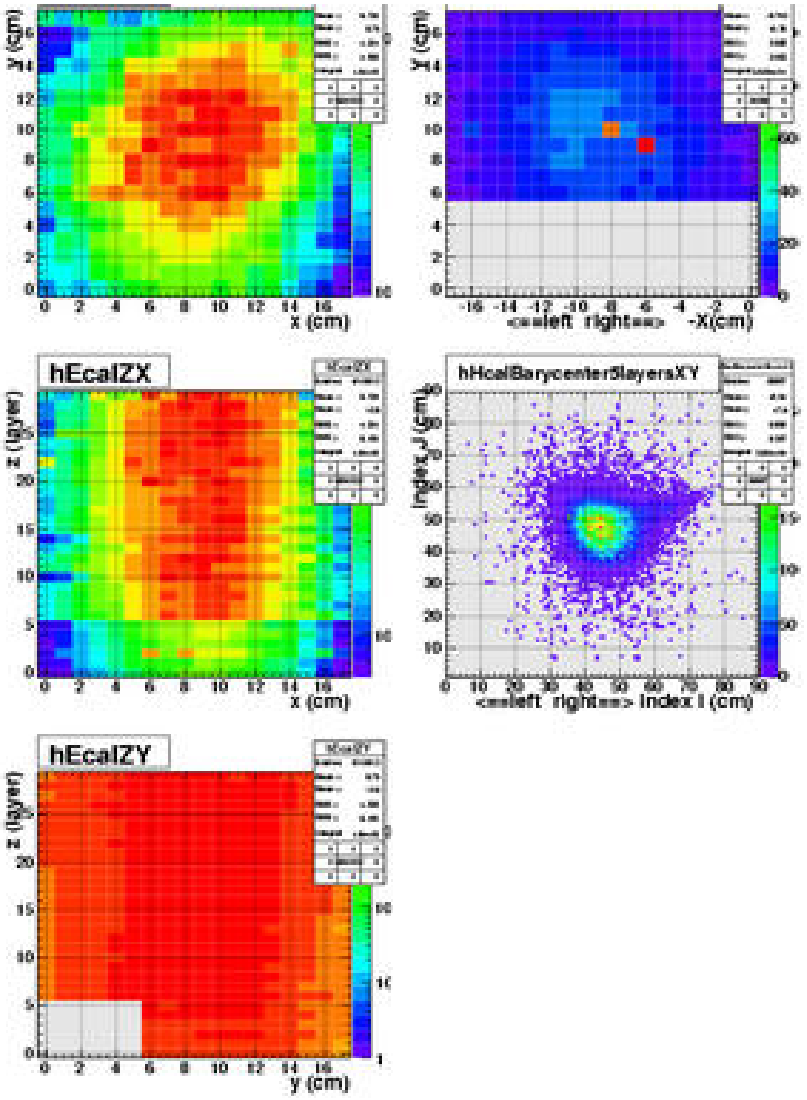
331006	beamData	20x20	-80GeV	mu-	555	Air	Air	0.0	0,0	10deg 190k events

DAQ rate: 90 Hz
6600 pps

2007-07-27 13:57 Erika, Fab **20x20 muon at 10deg**

muons at 10deg go straight through ECAL and HCAL
we did a good job of stuggering!
HCAL has 7 noise hits and 42 hits for the muon peak (-7 = 35, not bad approximation of 38 layers)

ECAL has <1 noise hit and 30 hits for the muon peak



File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/27.07/2007-07-27T13:57:48-00.ps

2007-07-27 14:00 Erika,Fabrizio,Martin **10 GeV**

change wobblings to -10 GeV

2007-07-27 14:08 Erika,Fabrizio,Martin **10x10 pi-**

331007	beamData	10x10	-20GeV	pi-	523	4mm Pb	Air	0.69	0,0	10deg

DAQ rate: 90 Hz
6000 pps

2007-07-27 14:34 Ariane,Martin **10x10 pi-**

331008	beamData	10x10	-15GeV	pi-	521	4mm Pb	Air	1.0	0,0	10deg

DAQ rate: 60 Hz
3600 pps

collimeters opened after 50k events
Cherenkov efficiency below 50%

2007-07-27 15:20 Ariane,Martin **10x10 pi-**

331009	beamData	10x10	-15GeV	pi-	521	4mm Pb	Air	1.35	0,0	10deg

DAQ rate: 80 Hz
3700 pps

trying to see the efficiency of the Cherenkov
Cherenkov efficiency turns out worse

2007-07-27 15:24 Ariane,Martin **10x10 pi-**

331010	beamData	10x10	-12GeV	pi-	524	8mm Pb	Air	1.5	0,0	10deg

DAQ rate: 80 Hz
2000 pps

Lowered the pressure under the default 1.85, Cherenkov is working fine
Switching the absorber to 8mm Pb

2007-07-27 16:19 Lukas, Alex **10x10 pi-**

331011	beamData	10x10	-10GeV	pi-	520	8mm Pb	Air	1.5	0,0	10deg

changed collimation (C1,C5,C6,C10,C11) from +-10 to +-12
150k ev.

2007-07-27 16:59 Lukas, Alex **10x10 e-**

331012	beamData	10x10	-10GeV	e-	520	Air	Air	2	0,0	10deg

•C1,C5,C6,C10 and C11 narrowed to ±5 mm.
•200k ev.

2007-07-27 17:38 Lukas, Alex **10x10 e-**

331013	beamData	10x10	-12GeV	e-	524	Air	Air	1.5	0,0	10deg

•C1,C5,C6,C10 and C11 narrowed to ±3 mm.
•Rate ~6.7k ev.
•Beam X position offset to +X (#>). Compensated by changing TRIM6 from +1 to +5.
•Aborted after 40k ev.

2007-07-27 18:05 Lukas, Alex **Junk run**

331014	beamData	10x10	-12GeV	e-	524	Air	Air	1.5	0,0	10deg

2007-07-27 18:06 Lukas, Alex **10x10 e-**

331015	beamData	10x10	-12GeV	e-	524	Air	Air	2	0,0	10deg

C1,C5,C6,C10 and C11 narrowed to ±3 mm.

2007-07-27 18:43 Lukas, Alex **No beam**

331016

Beam stopped before we could start another run.

2007-07-27 19:38 Lukas, Alex **Junk run**

331017	ahcGain

2007-07-27 19:40 Lukas, Alex **10x10 e-**

331018	beamData	10x10	-15GeV	e-	521	Air	Air	0.8	0,0	10deg

Stopped after 30k ev because of collimators adjustment.

2007-07-27 20:22 Lukas, Alex **10x10 e-**

331020	beamData	10x10	-20GeV	e-	523	Air	Air	0.5	0,0	10deg

•C1,C5,C6,C10 and C11 narrowed to ±4 mm. This run doesn#t exhibit excentricity problems observed in previous run.
•Pressure in Cerenkov counter was stuck at 0.79 and didn#t want to go to prescribed value. Finally it reached 0.5 after ~29 minutes of run.
•200k ev.

The beam went off and on for many short periods of time during this run.
http://elogbook.cern.ch/eLogbook/eLogbook.jsp?shiftId=1007833

2007-07-27 21:14 Lukas, Alex **10x10 pi-**

331021	beamData	10x10	-20GeV	pi-	523	4mm Pb	Air	0.5	0,0	10deg

•Because of different size of slits defined in file 523, collimators C1,C5 and C6 were adjusted to ±7 mm to be the same width as C10 and C11.
•190k ev.

2007-07-27 21:53 Lukas, Alex **10x10 pi-**

331022	beamData	10x10	-15GeV	pi-	521	4mm Pb	Air	0.8	0,0	10deg

Aborted after 26k ev to adjust beam in Y axis.

2007-07-27 22:04 Lukas, Alex **10x10 pi-**

331023	beamData	10x10	-15GeV	pi-	521	4mm Pb	Air	0.8	0,0	10deg

Aborted after 14k ev because of further adjustment of beam in Y (now from 3 A to 1 A).

2007-07-27 22:09 Lukas, Alex **10x10 pi-**

331024	beamData	10x10	-15GeV	pi-	521	4mm Pb	Air	0.8	0,0	10deg

150k ev.

2007-07-27 23:41 Lukas, Alex **10x10 pi-**

331027	beamData	10x10	-10GeV	pi-	520	4mm Pb	Air	2	0,0	10deg

2007-07-28 00:24 Nanda, Roman **pi- run**

331028	beamData	10x10	-8GeV	pi-	525	8mm Pb	Air	2.53	0,0	10deg

Miserable rate: 5pps!
-> opened collimators 1,5,6,8,10&11 from 5 to 20
Now at 2.5 kpps
-> reduce collimator 9 from 35 to 20 to clean up beam profile
End this run after 35k Events and start new run:

331029	beamData	10x10	-8GeV	pi-	525	8mm Pb	Air	2.53	0,0	10deg

150 kevt

2007-07-28 02:07 Nanda, Roman **pi- run**

331030	beamData	10x10	-18GeV	pi-	522	4mm Pb	Air	0.8	0,0	10deg

10x10 trigger rate: 3.5 kpps

155 kevt

2007-07-28 02:08 Nanda, Roman **pi- run**

331031	beamData	10x10	-25GeV	pi-	526	4mm Pb	Air	0.42	0,0	10deg

10x10 trigger rate: 5.3 kpps

beam gone after ~130 kevt

2007-07-28 02:46 Nanda, Roman **calibration data**

331032	ahcGain	
331033	ahcPmNoise	-e 20000
331034	ahcCmNoise	-e 20000
331035	ahcCmLedVcalibScan	
331036	ahcCmLedVcalibScan	

2007-07-28 05:18 Nanda, Roman **e- run**

331037	beamData	10x10	-25GeV	e-	526	Air	Air	0.42	0,0	10deg

closed collimators 1,5,6 from 6 to 4mm
and collimator 10,11 from 6 to 5mm

Now trigger rate in 10x10 coincidence: 2.7 kpps

DAQ rate: 92 Hz

High pion contamination, but well seperated by cerenkov threshold

200kevt

2007-07-28 06:05 Nanda, Roman **e- run**

331038	beamData	10x10	-18GeV	e-	522	Air	Air	0.8	0,0	10deg, tuning
331039	beamData	10x10	-18GeV	e-	522	Air	Air	0.8	0,0	10deg, tuning
331040	beamData	10x10	-18GeV	e-	522	Air	Air	0.7	0,0	10deg, good for phys

331038
• high triger rate
-> closed collimator 1&5 from 6 to 4mm, 6 from 6 to 5mm, 10&11 from 7 to 5mm
• not centered in DC (at 60 in Y)
-> change trim05 from +3 to +6A
331039
• wrong direction!
-> change trim05 to -2A
• still pion contamination visible
-> lower cerenkov pressure to 0.7
331040
10x10 trigger rate: 7kpps
DAQ rate: 90Hz
200kevt

2007-07-28 06:57 Nanda, Roman **e- run**

331041	beamData	10x10	-8GeV	e-	525	Air	Air	2.52	0,0	10deg

10x10 trigger rate: 1.6kpps
DAQ rate: 70Hz
200kevt

2007-07-28 07:37 Nanda, Roman **comb run**

331042	beamData	10x10	-6GeV	e-/pi-	023	Air	Air	2.98	0,0	10deg, good

10x10 trigger rate: 2.4kpps
DAQ rate: 75Hz

2007-07-28 07:46 Roman **cogri scripts stopped**

I have stopped the cogri scripts around midnight due to
problems with a new ce at DESY.

I took the opportunity to update the scripts such that they don't fail
on one unaccessible replica anymore.

I will inform when the scripts will be restarted again.

Cheers,

Roman

2007-07-28 08:25 Roman **Cogri Scripts restarted -> Copy to desy**

I have restarted the cogri scripts.

Copying and conversion resumed at run 331029.
The output is sent to desy.

The control of the cogri scripts has been handed over to the shift crew.

Cheers,

Roman

2007-07-28 09:14 Ariane,Martin,Cath **comb run finishing**

331044	beamData	10x10	-6GeV	comb	023	Air	Air	3.0	0,0	10deg

DAQ rate: 60 Hz
2100 pps

the beam went off from 400sec till 630sec
finished the last comb run - 250k events

2007-07-28 10:17 Ariane,Martin,Cath **pi- 25 GeV**

331045	beamData	10x10	-25GeV	pi-	526	4mm Pb	Air	0.35	0,0	10deg

DAQ rate: 90 Hz
6000 pps
150k events

2007-07-28 10:55 Ariane,Martin,Cathrin **pi- 18 GeV**

331046	beamData	10x10	-18GeV	pi-	522	4mm Pb	Air	0.6	0,0	10deg

DAQ rate: 70 Hz
3000 pps

layer no.20 noisy
changing the trim05 to -4A after 65k events
therefore we go for 200k events

2007-07-28 11:35 Ariane,Martin,Cathrin **pi- 8 GeV**

331047	beamData	10x10	-8GeV	pi-	525	8mm Pb	Air	2.3	0,0	10deg

miserable rate: about 30 pps
we changed the collimators position according to general rule
-> 1300 pps
DAQ rate: 50 Hz
unstable beam from CPS reported, continuing run nevertheless

a big bug has attacked the crew, the situation is contained

2007-07-28 12:40 Ariane,Martin,Cathrin **ahcGain**

331048	ahcGain

no beam from CPS, no time estimate

2007-07-28 13:16 Ariane,Martin,Cathrin **calibration runs**

331049	ahcPmNoise
331050	ahcCmNoise
331051	ahcPmLedVCalibScan

2007-07-28 13:33 Ariane,Martin,Cathrin **junk run**

331052	beamData	10x10	-10GeV	pi-	520	8mm Pb	Air	2.0	0,0	10deg junk

run cancelled, beam off in YX
adjusted both trim 6 and trim 5 (new settings saved to beam ref.)

2007-07-28 13:44 Ariane,Martin,Cathrin **pi- 10 GeV**

331053	beamData	10x10	-10GeV	pi-	520	8mm Pb	Air	2.0	0,0	10deg

DAQ rate: 60 Hz
1400 pps

2007-07-28 14:18 Ariane,Martin,Cathrin **junk again**

331054	beamData	10x10	-12GeV	pi-	524	8mm Pb	Air	1.5	0,0	10deg junk

2007-07-28 14:28 Ariane,Martin,Cathrin **pi- 12 GeV**

331055	beamData	10x10	-12GeV	pi-	524	8mm Pb	Air	1.5	0,0	10deg

DAQ rate: 60 Hz
1200 pps

unstable beam reported, data seems fine though, 100k events

2007-07-28 15:05 Ariane,Martin,Cathrin **pi- 12 GeV**

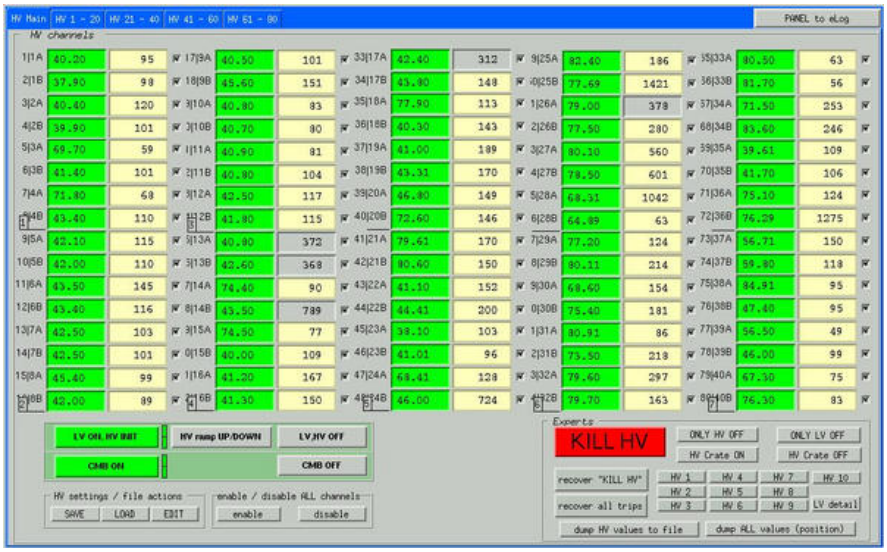
331057	beamData	10x10	-12GeV	pi-	524	8mm Pb	Air	1.5	0,0	10deg

DAQ rate: 60 Hz
1300 pps

beam still unstable

2007-07-28 15:11 **increase current thresholds**

found few channels on too high current, all about 10uA above threshold, maybe linked to higher temperature.
Please close HV pannel every 8 hours and open it again to ake sure it refreshes the threshold check. Modified thresolds for modules: 15 A/B, 16B 19A, 29A



File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/28.07/2007-07-28T15:11:02-00.jpg

2007-07-28 15:28 Ariane,Martin,Cath **junk run**

331058	beamData	10x10	-15GeV	pi-	524	4mm Pb	Air	0.8	0,0	10deg junk

tracker off, run stopped

2007-07-28 15:36 Ariane,Martin,Cath **junk again**

331060	beamData	10x10	-15GeV	pi-	524	4mm Pb	Air	0.8	0,0	10deg junk

tracker off, run again cancelled

2007-07-28 15:42 Ariane,Martin,Cath **junk again again**

331061	beamData	10x10	-15GeV	pi-	524	4mm Pb	Air	0.8	0,0	10deg, junk

surprise: again junk

2007-07-28 15:45 Ariane,Martin,Cath **pi- 15 GeV**

331062	beamData	10x10	-15GeV	pi-	524	4mm Pb	Air	0.8	0,0	10deg

DAQ rate: 85 Hz
3900 pps

2007-07-28 16:19 Lukas, Alex **10x10 pi-**

331063	beamData	10x10	-20GeV	pi-	523	4mm Pb	Air	0.5	0,0	10deg

2007-07-28 16:20

beam stopped
we are rotating to 20 deg

2007-07-28 19:33 Erika/Roman/Beni/Alex/Lukas/Fab

ECAL+AHCAL rotated by 20 deg and re-staggered

2007-07-28 19:34 Fab

After the rotation the laptop controlling the ECAL stage again lost contact with the stage.

The link between the laptop and the DAQ is established and the DAQ can communicate with the laptop using the usual socket, but the slow control program controlling the movements of the stage cannot establish the contact with the stage itself:
- the 'set' light is blinking on the slow control panel
- the two lights inn the box on the floor of the control room are not blinking anymore

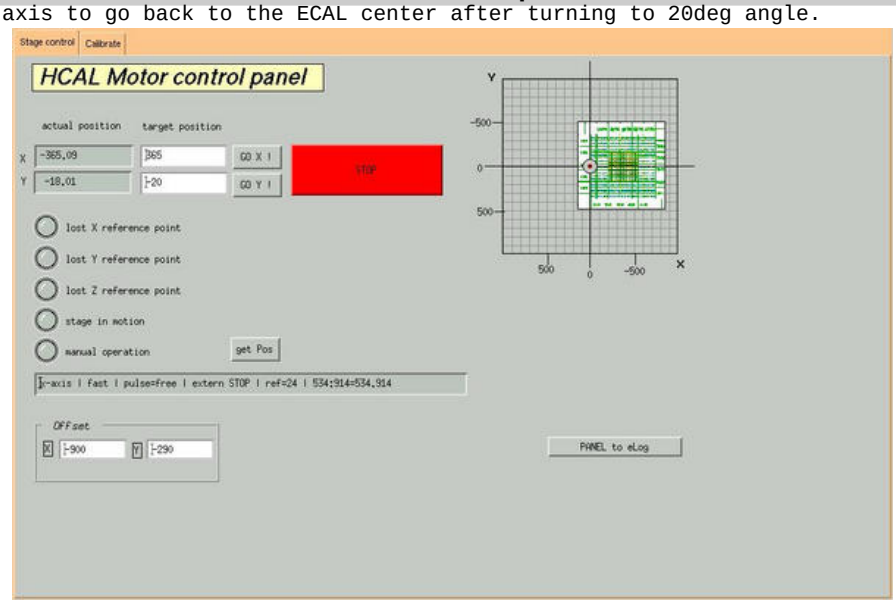
Since the connection with the DAQ is established, we left enabled the ECAL stage socket in the DAQ configuration. The position that the program reads is the one in the configuration file (x=4750, y=0).

2007-07-28 20:00 Erika/Roman/Beni/Alex/Lukas

331064	ahcPmNoise

2007-07-28 20:17 **new zero position**

We moved the x axis to go back to the ECAL center after turning to 20deg angle.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/28.07/2007-07-28T20:17:03-00.jpg

2007-07-28 20:26 Erika/Roman/Beni/Alex/Lukas **10x10 pi-**

331065	beamData	10x10	-20GeV	pi-	523	4mm Pb	Air	0.5	0,0	20deg

~160k ev.

2007-07-28 20:40 Erika/Roman/Beni/Alex/Lukas **10x10 pi-**

331066	beamData	10x10	-15GeV	pi-	521	4mm Pb	Air	0.8	0,0	20deg

•Stopped after 40k ev to reload HCAL DAC settings.
•TRIM6 adjusted from -1 to -5

2007-07-28 20:51 Erika/Roman/Beni/Alex/Lukas

331067	HCAL DAC settings reload

2007-07-28 20:53 Erika, Beni **PIN HBAB removed**

PIN HBAB 12/2 A removed after damage during rotation.
Board is being investigated and possibly replaced during next access

2007-07-28 21:05 Erika/Roman/Beni/Alex/Lukas **10x10 pi-**

331068	beamData	10x10	-15GeV	pi-	521	4mm Pb	Air	0.8	0,0	20deg

ECAL tripped because of high current

2007-07-28 21:21 Beni/Alex/Lukas **10x10 pi-**

331069	beamData	10x10	-12GeV	pi-	524	8mm Pb	Air	1.5	0,0	20deg

•ECAL tripping again
•CMBs were off, since when is unknown.
•Stopped because of technical difficulties after ~113k ev.

2007-07-28 22:00 Beni **stage angle measurement**

The picture shows the angles and the measured distances to calculate the angle.

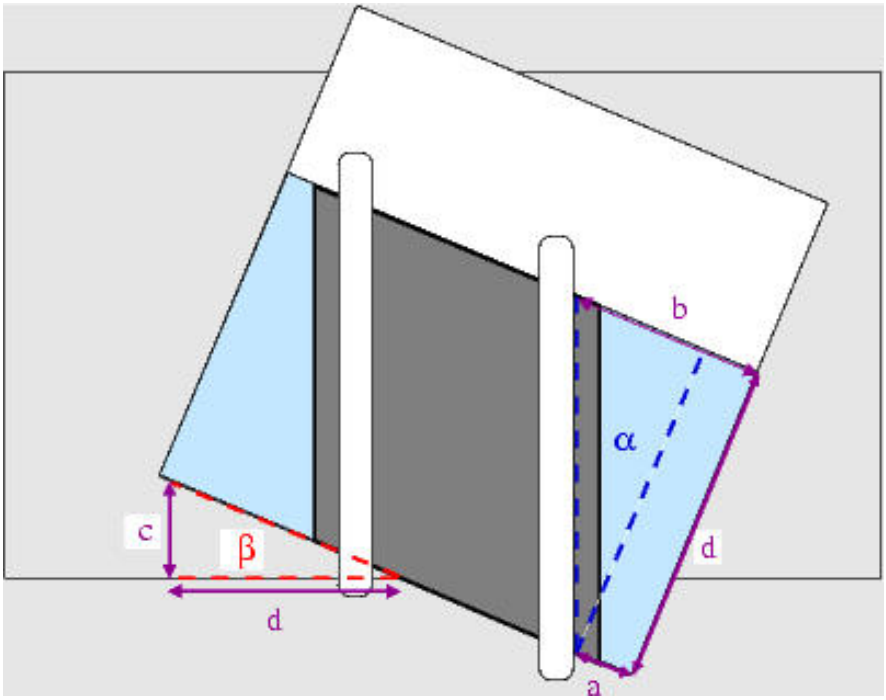
results: (in degree)

point	alpha	err	beta	err
10	10.00	0.20	10.00	0.10
20	19.71	0.14	19.85	0.11

Following formulas were used to calculate the angles:
tan(alpha) = (b-a)/d
tan(beta) = c/d

10 deg position:
(b-a) = 19.4 +- 0.4 cm
c = 19.4 +- 0.2 cm
d = 110.0 +- 0.2 cm

20 deg position:
a = 16.7 +- 0.2 cm
b = 56.1 +- 0.2 cm
c = 39.5 +- 0.2 cm
d = 110.0 +- 0.2 cm



File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/28.07/2007-07-29T00:37:32-00.gif

2007-07-28 22:33 Beni/Alex/Lukas

331070	ahcGain

2007-07-28 22:58 Beni/Alex/Lukas **10x10 pi-**

331071	beamData	10x10	-12GeV	pi-	524	8mm Pb	Air	1.5	0,0	20deg

Stopped afer 133k because of lost beam.

2007-07-28 23:48 Alex/Lukas

331072	ahcCmNoise
331073	ahcCmLedVcalibScan
331074	ahcPmLedVCalibScan

2007-07-29 04:39 Roman, Nanda **e- / pi- run**

331085	beamData	10x10	-6GeV	e-/pi-	023	Air	Air	3.0	0,0	20deg
331086	beamData	10x10	-6GeV	e-/pi-	023	Air	Air	3.0	0,0	20deg
331087	beamData	10x10	-6GeV	e-/pi-	023	Air	Air	3.0	0,0	20deg
331088	beamData	10x10	-6GeV	e-/pi-	023	Air	Air	3.0	0,0	20deg

331089	beamData	10x10	-6GeV	e-/pi-	023	Air	Air	3.0	0,0	20deg stopped with 20k ev

10x10 trigger rate: 8.8kpps
DAQ rate: 75Hz
split beam run in 250 kevt

NOTE: Good data seems to be run 331088.
-Allister

2007-07-29 13:34 Beni, Martin, Ariane **junk run**

331102	beamData	10x10	-8 GeV	e-	525	Air	Air	2.3	0,0	20deg, junk

x tracker off, run junked

2007-07-29 14:37 Beni, Martin, Ariane **junk run**

331104	beamData	10x10	-10 GeV	pi-	520	8mm Pb	Air	2.0	0,0	20deg junk

y tracker off

2007-07-29 14:45 Beni, Martin, Ariane **pi- 10 GeV**

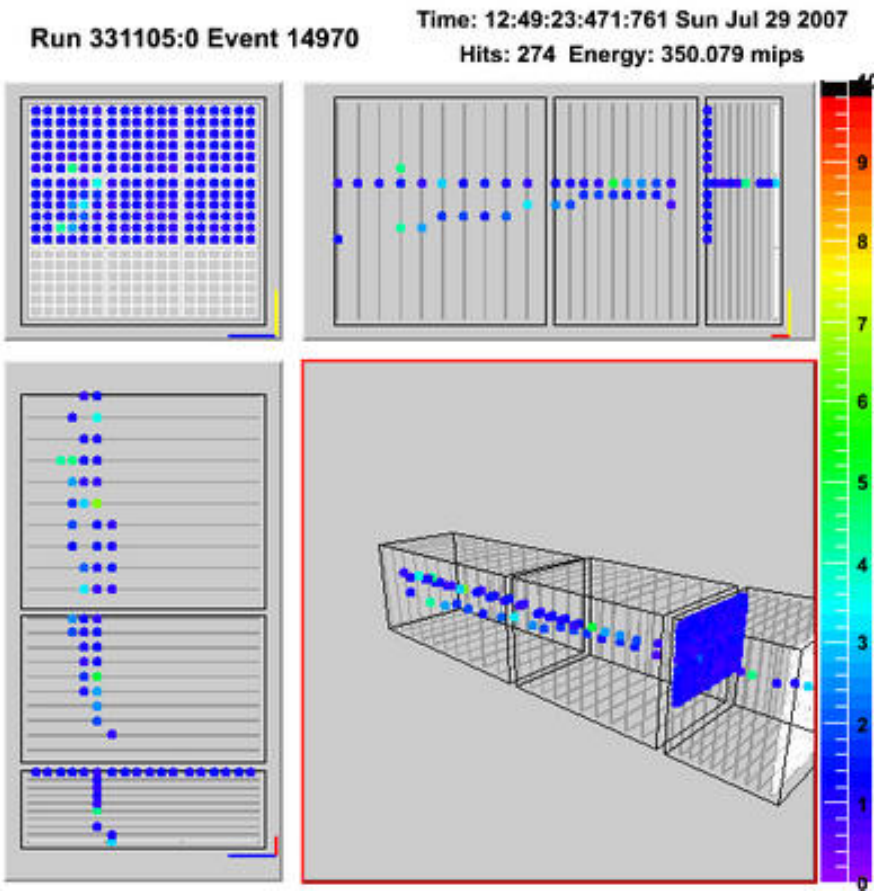
331105	beamData	10x10	-10 GeV	pi-	520	8mm Pb	Air	2.0	0,0	20deg

1200 pps
DAQ rate: 60 Hz
150k events

2007-07-29 14:55 caliceon@calicesetup.cern.ch **ECAL noise**

We welcome back the ECAL square event

Comment(Marcel):
This is not what is referred to as square event. It shows only a pedestal shift in one layer.
For now an event has been called 'square event' when (nearly) all the border cells of one wafer show a hit.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/29.07/2007-07-29T14:55:02-00.png

2007-07-29 15:12 caliceon@calicehcal02.cern.ch (CALICE user) **change of threshold**

change curernt threshold for 2 channels corresponding to modules 18B and 29A



File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/29.07/2007-07-29T15:12:02-00.jpg

2007-07-29 15:24 Beni, Martin, Ariane **junk run**

331106	beamData	10x10	-12 GeV	pi-	524	8mm Pb	Air	1.5	0,0	20deg junk

beam slightly off, for a change

j u n k

2007-07-29 15:33 Beni, Martin, Ariane **pi- 12 GeV**

331107	beamData	10x10	-12 GeV	pi-	524	8mm Pb	Air	1.5	0,0	20deg

1600 pps
DAQ rate: 60 Hz
150k events

2007-07-29 16:34 Catherine, Tom, Alex **-15 GeV pi-**

331114	beamData	10x10	-15 GeV	pi-	521	8mm Pb	Air	0.8	0,0	20deg, trim05=5, trim06=-8
331113	beamData	10x10	-15 GeV	pi-	521	8mm Pb	Air	0.8	0,0	20deg, junk
331112	beamData	10x10	-15 GeV	pi-	521	8mm Pb	Air	0.8	0,0	20deg, junk
331111	beamData	10x10	-15 GeV	pi-	521	8mm Pb	Air	0.8	0,0	20deg, junk
331110	beamData	10x10	-15 GeV	pi-	521	8mm Pb	Air	0.8	0,0	20deg, junk
331109	beamData	10x10	-15 GeV	pi-	521	8mm Pb	Air	0.8	0,0	20deg, stopped for beam pos correction, set trim05 from -4A to -2A, trim06 from -2.5A to -4A
331108	ahcPmNoise									

2007-07-29 17:37 Catherine, Tom, Alex **-20GeV pi- run**

331116	beamData	10x10	-20 GeV	pi-	523	4mm Pb	Air	0.5	0,0	20deg, trim05=0, trim06=-3
331115	beamData	10x10	-20 GeV	pi-	523	4mm Pb	Air	0.5	0,0	20deg, stopped for pos correction

noisy ECAL layer 9

2007-07-29 17:55 Alex **Run Monitor Pedestal Update**

I updated the pedestal data for the run monitor for HCAL and TCMT. Pedestal data was taken from ahcPmNoise run 331108

2007-07-29 18:09 Catherine, Tom, Alex **AHCAL Led Ped**

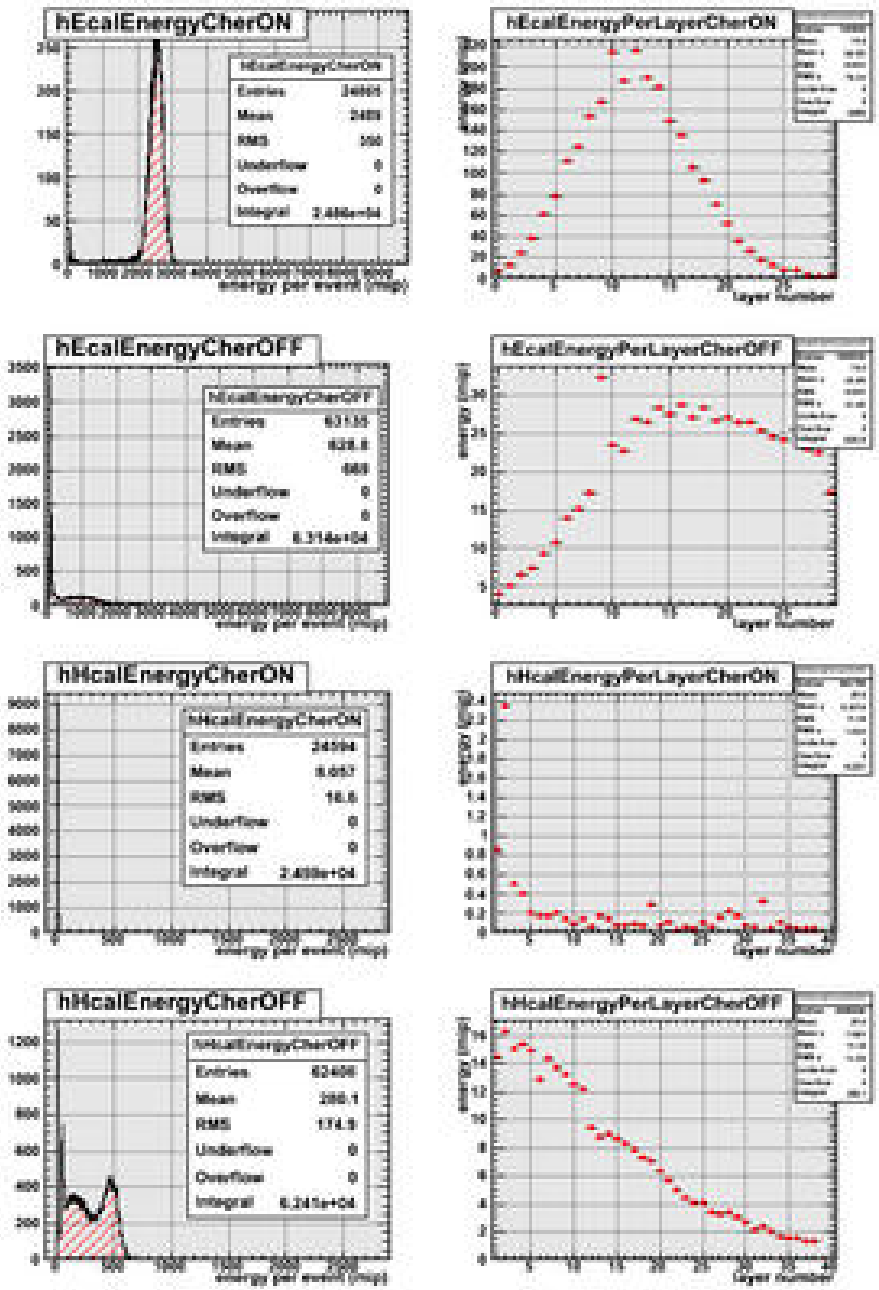
331117	HCAL DAC settings reload					

AHCAL LED pedestal for Layer25 ~2000, so we did a HCAL DAC settings reload

2007-07-29 18:17 Catherine, Tom, Alex **-20 GeV e- run**

331119	beamData	10x10	-20 GeV	e-	523	Air	Air	0.5	0,0	20deg, set trim05 to -1.5
331118	beamData	10x10	-20 GeV	e-	523	Air	Air	0.5	0,0	20deg, stopped for pos. correction

There is a high number of pions in the beam, but cherenkov seems to work correct



File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/29.07/2007-07-29T18:17:51-02.png

2007-07-29 19:01 Catherine, Tom, Alex

331120	beamData	10x10	-15 GeV	e-	521	Air	Air	0.8	0,0	20deg, closed C1,C5,C6,C10,C11 to +-4, stopped for pos. corr.
331121	beamData	10x10	-15 GeV	e-	521	Air	Air	0.8	0,0	20deg, set TRIM05 to 2.5, TRIM06 to -8, stopped for pos.corr.
331122	beamData	10x10	-15 GeV	e-	521	Air	Air	0.8	0,0	20deg, set

										TRIM05 to 1.5, TRIM06 to -10, stopped for pos.corr.
331123	beamData	10x10	-15 GeV	e-	521	Air	Air	0.8	0,0	20deg, set TRIM06 to -11, good run 200k

2007-07-29 19:36 Catherine, Tom, Alex **AHCAL LED pedestal**

AHCAL LED pedestal for Layer25 still ~2000

2007-07-29 20:19 Catherine, Tom, Alex **-12 Gev electron run**

331126	beamData	10x10	-12 GeV	e-	524	Air	Air	1.5	0,0	20deg set Trim06 to 5, good run 200k ev
331125	beamData	10x10	-12 GeV	e-	524	Air	Air	1.5	0,0	20deg set Trim05 to -1.5, Trim06 to 0 stopped for pos. corr.
331124	beamData	10x10	-12 GeV	e-	524	Air	Air	1.5	0,0	20deg stopped for pos. corr.

2007-07-29 21:11 Catherine, Tom, Alex **10 GeV electron run**

331128	beamData	10x10	-10 GeV	e-	520	Air	Air	2.0	0,0	20deg, set Trim05 to -2, Trim06 to 3.5, good run 200k ev
331127	beamData	10x10	-10 GeV	e-	520	Air	Air	2.0	0,0	20deg, positioning...

set c1,c5,c6,c10,c11 to +-5

2007-07-29 22:06 Catherine, Tom, Alex **20 GeV pion run**

331131	beamData	10x10	-20 GeV	pi-	523	Air	4mm Pb	0.5	0,0	20deg, set Trim05 to 1, Trim06 to -5, good run 150k ev
331130	beamData	10x10	-20 GeV	pi-	523	Air	4mm Pb	0.5	0,0	20deg, set Trim05 to 0, Trim06 to -6, pos...
331129	beamData	10x10	-20 GeV	pi-	523	Air	4mm Pb	0.5	0,0	20deg, positioning...

2007-07-29 22:50 Catherine, Tom, **15 GeV pion run**

				Alex						
331134	beamData	10x10	-15 GeV	pi-	521	Air	4mm Pb	0.8	0,0	20deg, set Trim05 to 5.5, Trim06 to -5.5, good run, 150k ev
331133	beamData	10x10	-15 GeV	pi-	521	Air	4mm Pb	0.8	0,0	20deg, set Trim05 to 2, Trim06 to -3.5, pos...
331132	beamData	10x10	-15 GeV	pi-	521	Air	4mm Pb	0.8	0,0	20deg, positioning...
2007-07-29 23:27			Catherine, Tom, Alex	**12 GeV pion run**						
331136	beamData	10x10	-12 GeV	pi-	524	Air	8mm Pb	1.5	0,0	20deg, set Trim05=-1
331135	beamData	10x10	-12 GeV	pi-	524	Air	8mm Pb	1.5	0,0	20deg, positioning...

new noisy ECAL layer: 20

2007-07-24 01:29 Beni **disk space monitoring**

I installed a cronjob on caliceana that checks the free disk space.
If the free space goes below 15% Roman and me will be warned by email. If the free space is less than 10% a warning message will appear in the elog.

The cronjob runs as caliceon on caliceana. The script is in /home/caliceon/diskSpaceMonitor.

If the data partition is changed, the disk to be monitored has to be changed, too. Please edit the line monitorDisk=?? in the checkDataDisk.sh script.

2007-07-24 01:52 Allister, Robert, Riccardo **electron run**

330882	beamData	10x10	-12GeV	e-	524	air	air	1.87	-6,0	56kEvents, stopped since beam is not centered in x
330883	beamData	10x10	-12GeV	e-	524	air	air	1.87	-6,0	kEvents

10x10 trigger rate: 5.4 kpps
DAQ rate: 87 Hz
TRIM06 = 0amp

2007-07-24 01:59 Allister, Robert, Riccardo **Guassian Fit for recent electron runs**

Guassian Fit for recent electron runs

Run#	E(GeV)	mean(mips)	sigma(mips)	sigma/mean(%)
330874	8	1075	104.6	9.75
330876	10	1329	116.3	8.75
330883	12	1587	133	8.38
330886	15	1928	147	7.62
330888	18	2302	148	6.43
330890	20	2534	162	6.39
330891	25	3136	167	5.32

2007-07-24 02:38 Allister, Robert, Riccardo

330884	beamData	10x10	-15GeV	e-	524	air	air	0.98	-6,0	beam position tuning, just a few events
330885	beamData	10x10	-15GeV	e-	524	air	air	0.98	-6,0	beam position tuning, just a few events
330886	beamData	10x10	-15GeV	e-	524	air	air	0.98	-6,0	beam centered. 250kEvents

TRIM05 is changed from 5A to -2A
TRIM06 is changed from -2.5A to -1.5A
COLL01,05,06,10,11 = +/- 8mm (increased from 5mm since rates are less than 1kpps)
new trigger rate: 4.9 kpps

2007-07-24 02:56 Roman **cogri scripts restarted -> copy to lyon**

Dear Colleagues,

I have restarted the cogri scripts. The output is sent to lyon since
at desy there is always the risk to stumble over two or three very
slow dcache doors which even caused a several hours delay this afternoon.

Copying has resumed at 330871 and once more at 330882 after the switch
from data01 -> data00 (see elog entry by Beni).

Control of cogri scripts handed back to shiftcrew.

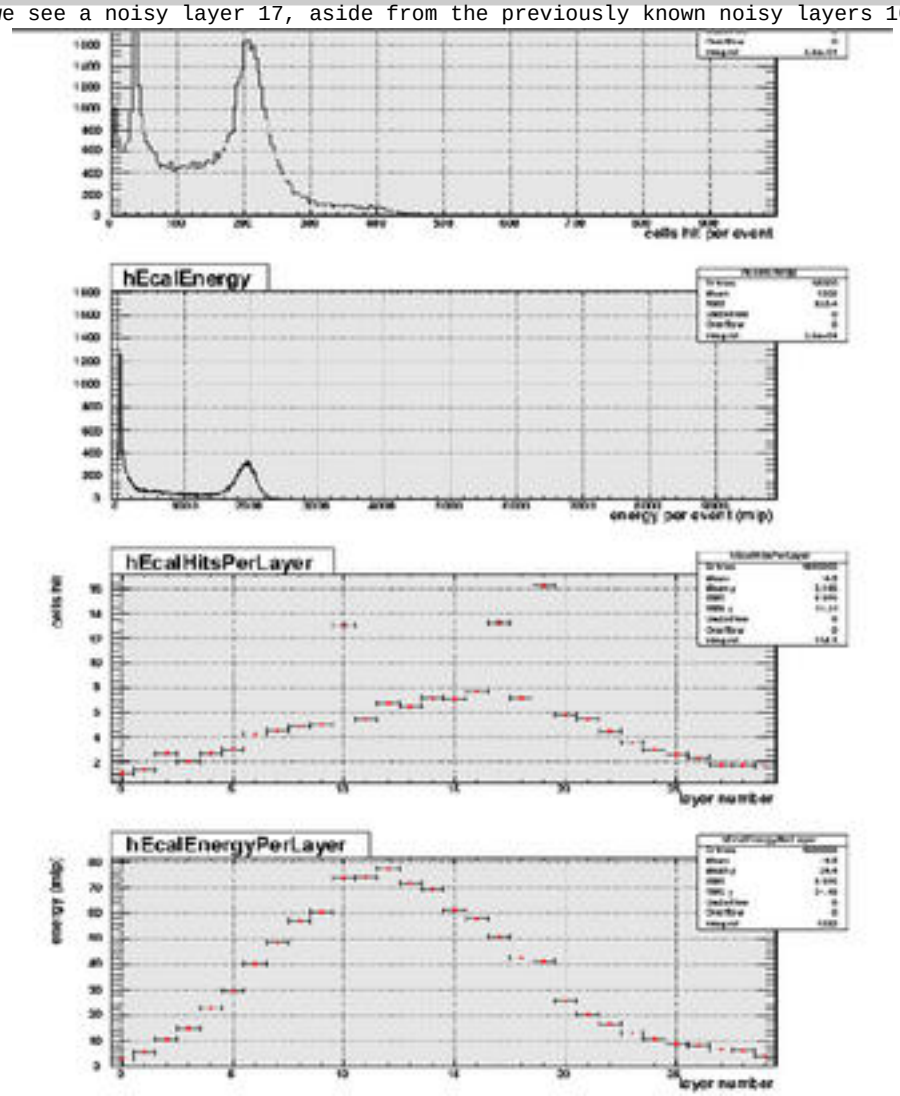
Cheers,

Roman

2007-07-24 03:10 Allister, Robert, **noisy ECAL layer 17**

Riccardo

In run 330886 we see a noisy layer 17, aside from the previously known noisy layers 10 and 19.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/24.07/2007-07-24T03:10:42-01.ps

2007-07-24 03:50 Allister, Robert, Riccardo **electron run**

330887	beamData	10x10	-18GeV	e-	522	air	air	0.80	-6,0	beam position tuning
330888	beamData	10x10	-18GeV	e-	522	air	air	0.80	-6,0	beam centered at DCs. 206 kEvts
330889	beamData	10x10	-18GeV	e-	522	air	air	0.80	-6,0	50 kEvts

TRIM05: 3A -> -1A -> -2A
TRIM06: -3A -> -1A -> 0A
Trigger rate: 2.2 kpps
daq rate: 72 Hz

Stopped run 330888 at 206kEvts because of sudden drop in trigger rates. Reason not known.
Opened collimators for 330889: COLL01,05,06,10,11 = +/-13mm

2007-07-24 05:11 Allister, Robert, Riccardo

330890	beamData	10x10	-20GeV	e-	523	air	air	0.688	-6,0	250kEvents

TRIM06 changed to -1.0A

2007-07-24 05:56 Allister, Robert,

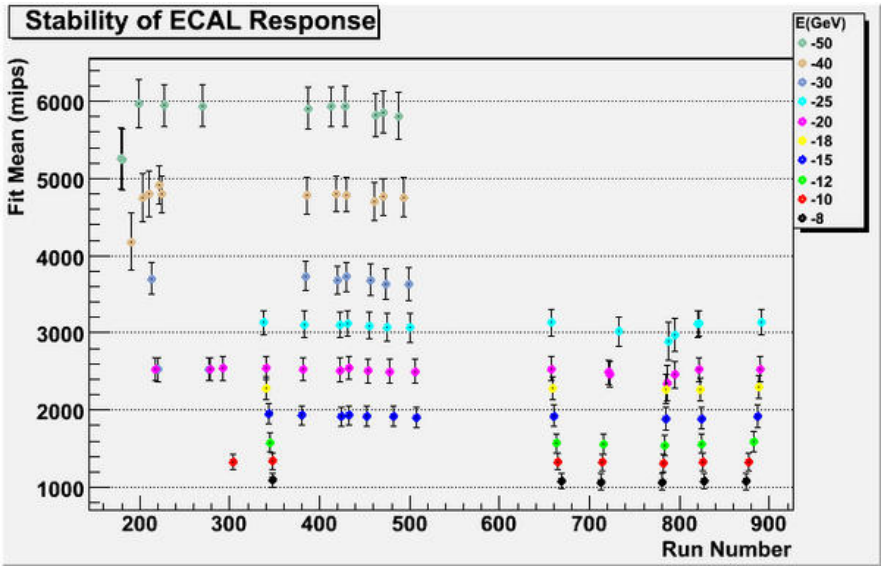
Riccardo

330891	beamData	10x10	-25GeV	e-	523	air	air	0.411	-6,0	264kEvts

TRIM05 changed to -0.5A
Collimators slightly reduced: COLL01,05,06,10,11 = +/-5mm
trigger rate = 5.7kpps
daq rate = 85 Hz

2007-07-24 06:17 Allister, Riccardo, Robert **stability of ECAL response (updated)**

Plot of ECAL response (obtained by gaussian fit on hEcalEnergy) vs run number, updated with recent electron runs. The error bars are actually gaussian sigma.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/24.07/2007-07-24T06:17:06-00.png

2007-07-24 06:32 Allister, Robert, Riccardo

HCAL Voltage channels 1/1A, 2/31B, 33/17A and 1/26A became
red many times during this whole shift.

The channel 2/31B is lately blinking quite stably.

2007-07-24 06:42 Allister, Robert, Riccardo **calibration data**

330892	ahcGain	
330893	ahcPmLedVcalibScan	
330894	ahcCmLedVcalibScan	
330895	ahcPmNoise	-e 20000
330896	ahcCmNoise	-e 20000

2007-07-24 07:50 Allister, Robert, Riccardo

330897	beamData	10x10	-25	e-	526	air	air	0.42	-6,0	138K events

2007-07-24 08:24 Allister, Robert, Riccardo

330898	beamData	10x10	-20GeV	e-	523	air	air	3.0	check new beam position
330899	beamData	10x10	-20GeV	pi-	523	air	air	3.0	check new beam position
330900	beamData	10x10	-20GeV	pi-	523	air	air	3.0	check new beam position
330901	beamData	10x10	-20GeV	pi-	523	air	air	3.0	check new beam position

not for physics. after moving to 0,0 we check the beamspot

2007-07-24 08:47 Beni, Petr , Laurent

330902	beamData	10x10	-6GeV	e-	23	air	air	3.0	0,0	

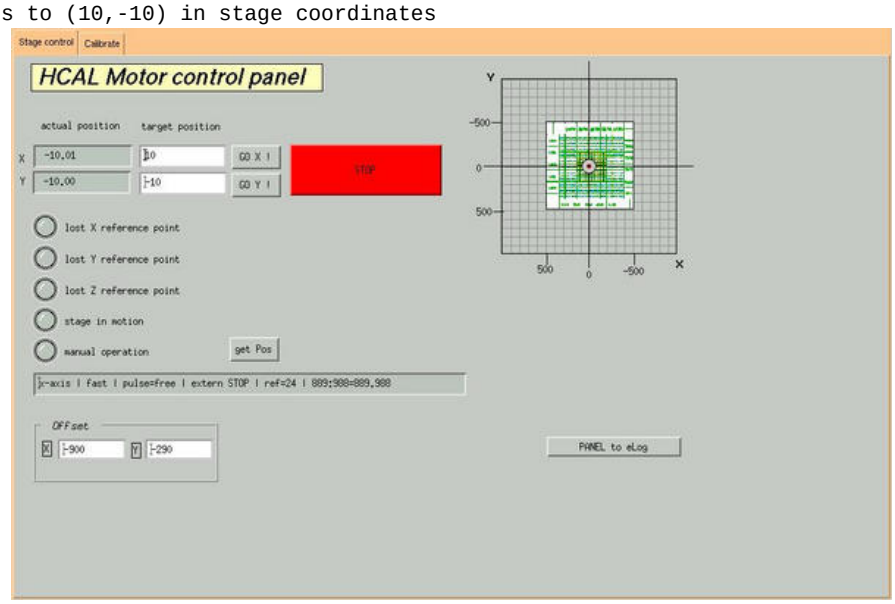
beam is out in X, we changed trim6 0 -> -2

2007-07-24 08:52 Beni, Petr , Laurent

330903	beamData	10x10	-6GeV	e-	23	air	air	3.0	0,0	

2007-07-24 10:09 Beni **new position**

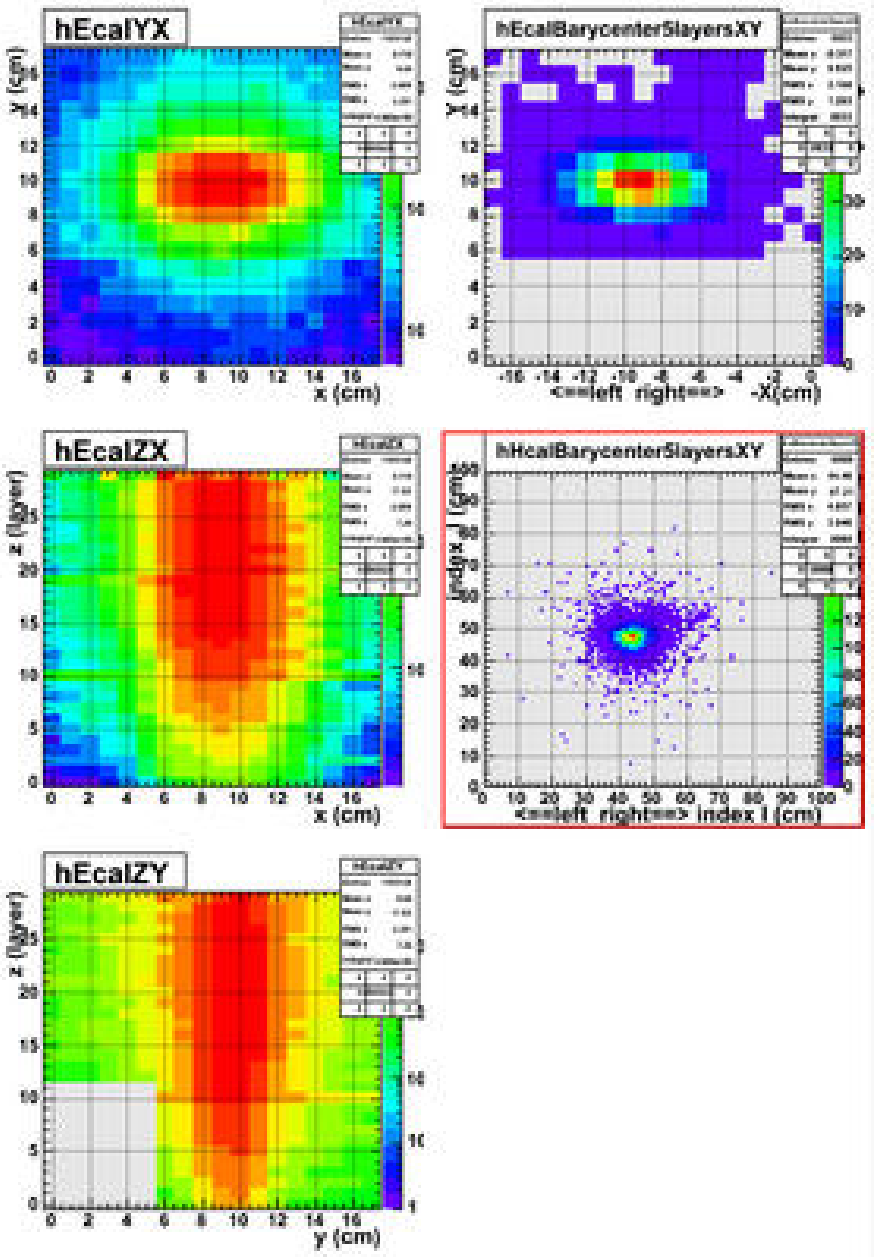
moved to (0,0) in ECAL coordinates
this corresponds to (10,-10) in stage coordinates



File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/24.07/2007-07-24T10:09:02-00.jpg

2007-07-24 10:36 **position check in 2D display**

ECAL position (0,0)



File: http://ttfinfo.desy.de/CALICElog/data/2007/30/24.07/2007-07-24T10:36:02-00.gif

2007-07-24 10:48	Beni, Petr , Laurent
330904	closed x acceptance
330905	optimized Quad 9&10
330906	optimized Quad 11&12 + 13&14 + 15&16
330907	removed Quad (de)optimization 15&16

RESULT:
•old values for 13,14,15 and 16
•new values for 9,10,11 and 12

2007-07-24 10:53	Beni, Petr , Laurent									
330908	beamData	10x10	-6GeV	e-/pion-	23	air	air	3.0	0,0	140k Events

trigger rate 10x10: 1.3k
DAQ: 50 Hz
pion- rejection > 99%
e- detection > 98%

ratio e-:pion- = 9:1

2007-07-24 10:57 Beni, Petr , Laurent

330909	beamData	10x10	-6GeV	e-/pion-	23	air	air	3.0	0,0	43k events

no beam due to server rebooting

2007-07-24 11:11 Beni, Petr , Laurent

330910	beamData	10x10	-6GeV	e-/pion-	23	air	air	3.0	0,0	159k Events

trigger rate 10x10: 1.4k
DAQ: 50 Hz
spike in hcal power line, run stopped for relod Hcal DAQ setting

2007-07-24 13:42 Beni, Petr , Laurent

330911	DAQ scanning
330912	garbage run
330913	DAQ scanning

2007-07-24 13:44 Beni, Petr , Laurent

330914	beamData	10x10	-6GeV	e-/pion-	23	air	air	3.0	0,0	30k Events

trigger rate 10x10: 1.4k
DAQ: 50 Hz

2007-07-24 13:45 Beni, Petr , Laurent

330919	ahcGain	
330918	ahcPmLedVcalibScan	
330917	ahcCmLedVcalibScan	
330916	ahcPmNoise	-e 20000
330915	ahcCmNoise	-e 20000

2007-07-24 14:07 Beni, Petr , Laurent **6 GeV run**

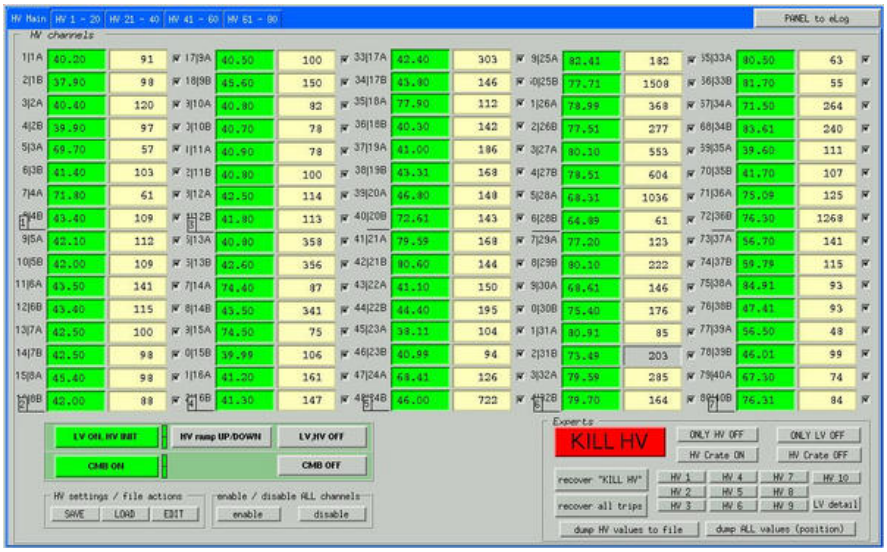
330920	beamData	10x10	-6GeV	e-/pion-	23	air	air	3.0	0,0	aprox 100k good, afterwards different energy

The summer students started without notifying us, last 20% of run are with unknown beam settings

trigger rate 10x10: 1.4k
DAQ: 50 Hz

2007-07-24 14:43 caliceon@calicehcal-03-02.cern.ch (CALICE user) **increase current threshold**

increase current threshold for channel 62, module 36 B from 200 to 210



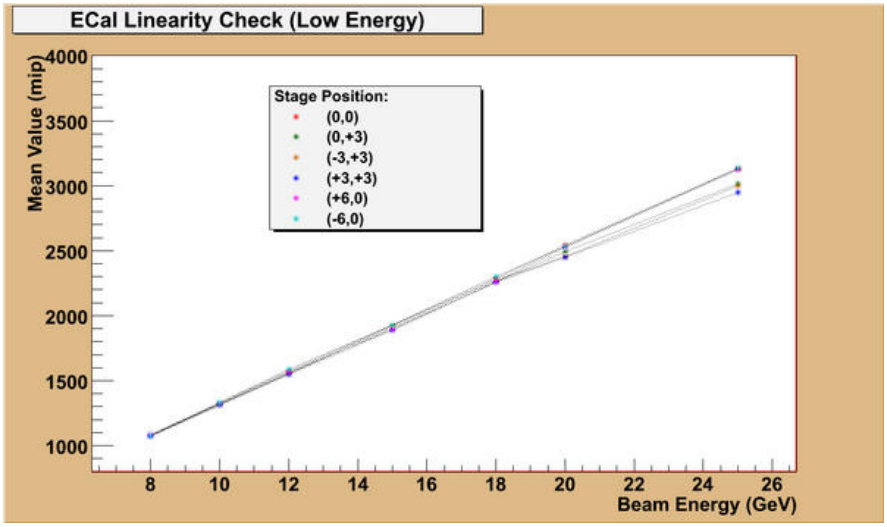
File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/24.07/2007-07-24T14:43:01-00.jpg

2007-07-24 15:24 Hengne **ECal Linearity Check (Low Energy)**

- for different stage position (0,0) / (0,+3) / (-3,+3) / (+3,+3) / (+6,0) / (-6,0)
- linearity of stage position (0,0) (+6,0) (-6,0) seems to be better than others

- Since Run330717, Run330719, Run330720, which correspond to energy 15GeV and 18GeV at stage position

(0, +3), were not online Analysed, these two points on the plot of stage position (0,0) are left blank.
- no error considered since they are neglectable



File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/24.07/2007-07-24T15:24:03-00.png

2007-07-24 15:51 Beni, Petr , Laurent

Guassian Fit for recent electron runs

Run#	E(GeV)	mean(mips)	sigma(mips)	sigma/mean(%)
330897	25	3085.5	190.1	6.16
330908	6	808.1	88.3	10.93
330909	6	809.9	82.9	10.23

2007-07-24 16:00 Beni **VETO ampitude readout**

Identified the bug in the veto amplitude readout setup.
updated values for:
- HV = 1600 V
- hold = 20 ticks (10x10 trigger)

checked signal in run 330922 => good pedestal MIP separation

2007-07-24 17:43 Beni **trigger changed to 20x20**

- changed AHC.cfg link to AHC_CERN07_beamhold_20x20.cfg
- set ECAL sequence delay to 10 ticks
- build runner
- restarted DAQ

2007-07-24 17:54 Nicola, Hengne, Manqi

330929	beamData	-10GeV	mu-	556	air	air	3.02	100k

at 81000 events the CMB are switched off... does the pedestal change? No, the pedestal doesn't move at all.

change hold file to 20x20 trigger = 3 ticks earlier than 10x10
for all detectors

2007-07-24 18:10 Nicola, Hengne, Manqi

330930	beamData	-10GeV	mu-	556	air	air	3.02	200k ev

bad Vcalib values in the AHC.cfg file for 20x20 trigger
many CMB show no light in this run
changed Vcalib settings for the next run

2007-07-24 18:55 Nicola, Hengne, Manqi

330931	beamData	-10GeV	mu-	556	air	air	3.02	150k

2007-07-24 19:30

330932	beamData	-10GeV	mu-	556	air	air	3.02	250k events

2007-07-24 20:14

330933	beamData	-10GeV	mu-	556	air	air	3.02	junk!!!

2007-07-24 20:18

330934	beamData	-10GeV	mu-	556	air	air	3.02	250k

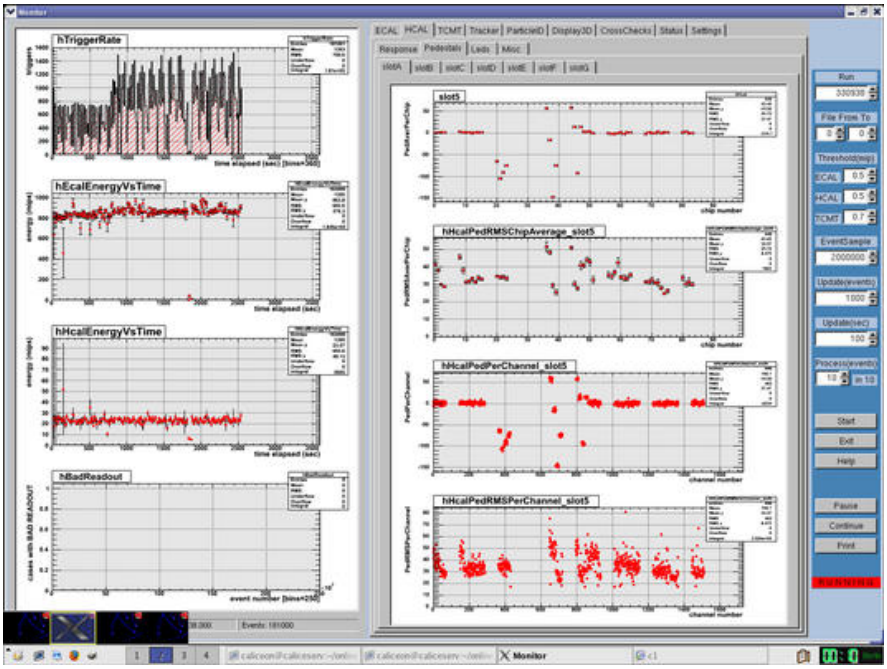
2007-07-24 21:10

330935	beamData	-10GeV	mu-	556	air	air	3.02	130k events

2007-07-25 00:00

2007-07-25 00:13 Nicola hengne manqi **Anormal in Hcal pedestal**

Another anormal corresponding to slot 5 appeared. (the third block become quite negative) Appear from run 330935.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/25.07/2007-07-25T00:13:10-00.png

2007-07-25 00:30 Fabbri, Kieffer **No beam for us**

330938	beamData	-8GeV	e-	525	air	air	2.56	0,0	238K events

From 00:20 we have no beam. At the control room they are investigating the reason of this.

Run 330938 interrupted to take an ECAL safety run.

2007-07-25 01:14 Robert, Riccardo

330939	ahcCmNoise	-e 20000
330940	ahcPmNoise	-e 20000
330941	ahcCmLedVcalibScan	
330942	ahcPmLedVcalibScan	

We start a calibration because there is still no beam.

2007-07-25 01:40 Robert, Riccardo **Beam is back**

The ahcGain calibration is skipped, to restart normal data taking

2007-07-25 01:47 Robert, Riccardo

330943	beamData	-8GeV	e-	525	air	air	2.56	0,0	50K events

2007-07-25 01:59 Robert, Riccardo

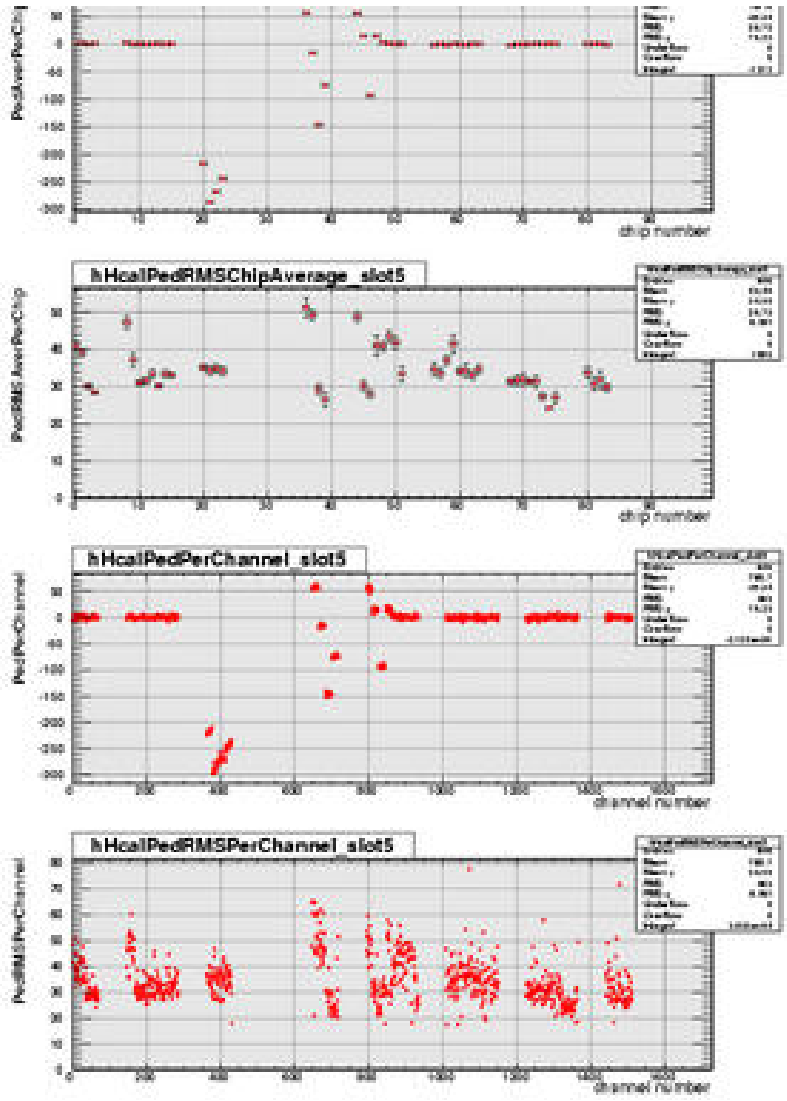
Guassian Fit for recent electron runs

Run#	E(GeV)	mean(mips)	sigma(mips)	sigma/mean(%)
330943	8	1068	104	9.7
330944	10	1320	118	8.9
330945	12	1567	130	8.3
330947	15	1939	139	7.2

PLUS combined \pi^- and e^-

Run#	E(GeV)	mean(mips)	sigma(mips)	sigma/mean(%)
330949	6	819	98	12

2007-07-25 02:20 Robert, Riccardo **Same pedestal shift as in 8GeV e- run**



File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/25.07/2007-07-25T02:20:23-00.ps

2007-07-25 02:47 Robert, Riccardo

330944	beamData	-10GeV	e-	520	air	air	2.30	0,0	250K events

2007-07-25 03:55 Robert, Riccardo

330945	beamData	-12GeV	e-	524	air	air	1.88	0,0	268K events

2007-07-25 03:56 Robert, Riccardo **Sheets for checklist are missing!!**

2007-07-25 03:58 Robert, Riccardo

330946	beamData	-15GeV	e-	521	air	air	0.97	0,0	20K events

Run stopped to tune the beam profile (Y at ~80)

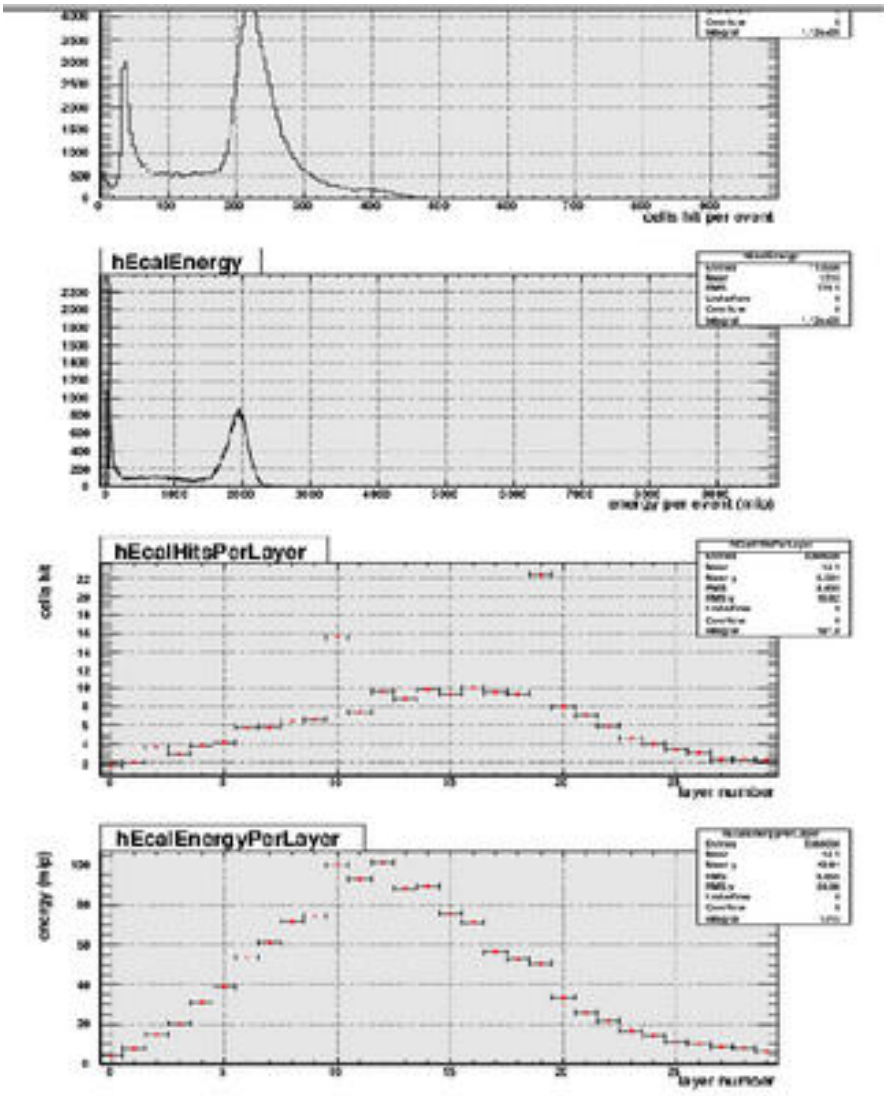
2007-07-25 04:08 Robert, Riccardo

330947	beamData	-15GeV	e-	521	air	air	0.98	0,0	235K events

2007-07-25 04:32 Robert, Riccardo

Channel 10 again noisy when running at 15GeV e-. At lower energies only ch.19

was noisy.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/25.07/2007-07-25T04:32:29-00.ps

2007-07-25 04:40 Robert, Riccardo **Message from Control Room**

SPS long MD

No beam for physics from 25/7 8:00 until 26/7 8:00

2007-07-25 05:22 Robert, Riccardo

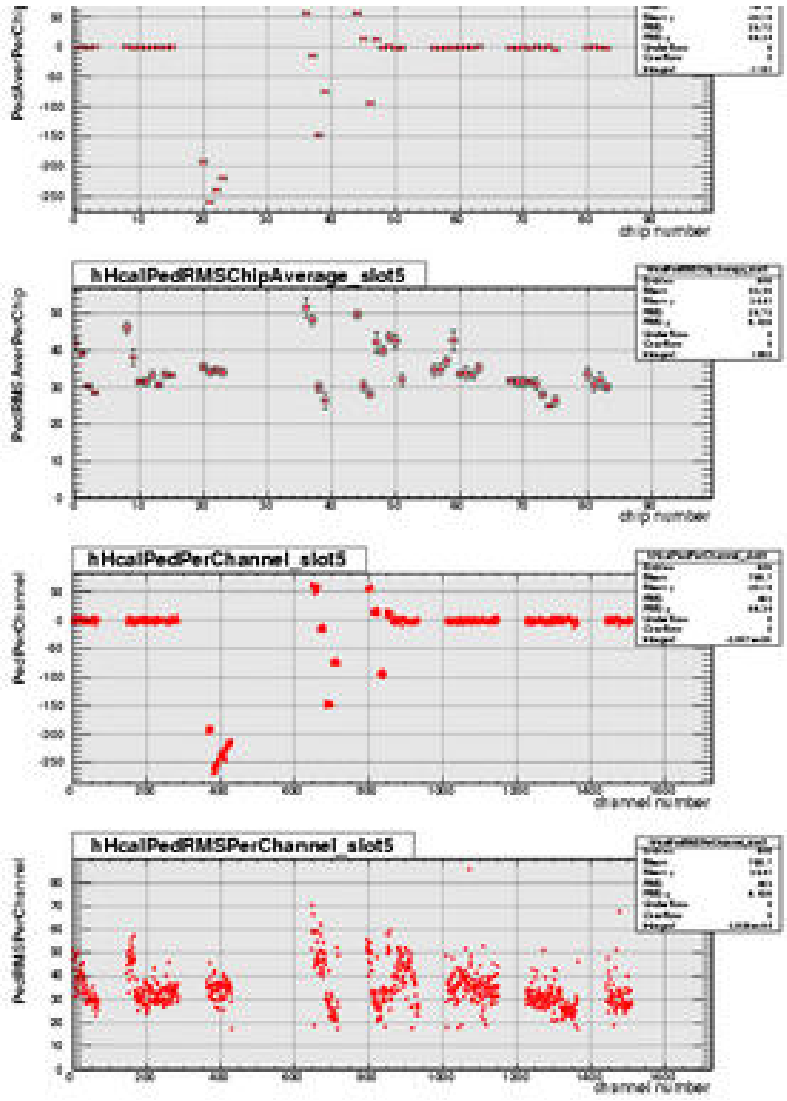
330948	ahcGain	

2007-07-25 05:23 Robert, Riccardo

330949	beamData	-6GeV	e-	023	air	air	3.00	0,0	200K events

2007-07-25 06:06 Robert, Riccardo **HCAL pedestals still shifted**

They show no change during the all night



File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/25.07/2007-07-25T06:06:58-00.ps

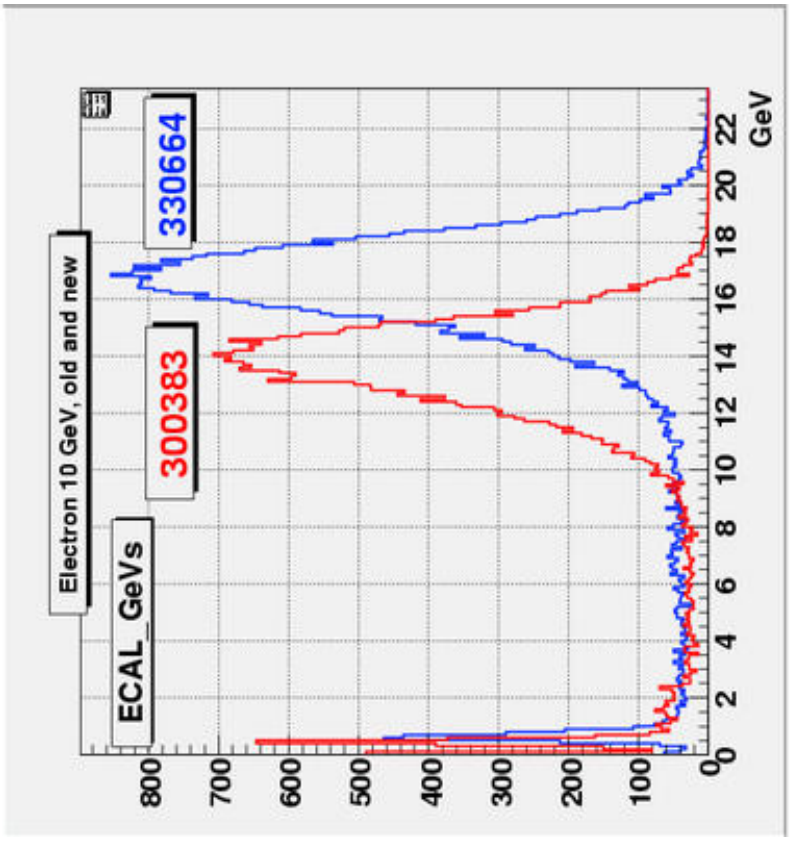
2007-07-25 06:57 Robert, Riccardo

330950	beamData	-6GeV	e-	023	air	air	3.00	0,0	181K events

2007-07-25 08:03 Robert, Riccardo **As announced, no more beam for today**

2007-07-25 14:59 Vasiliy **evidence of ECAL noise**

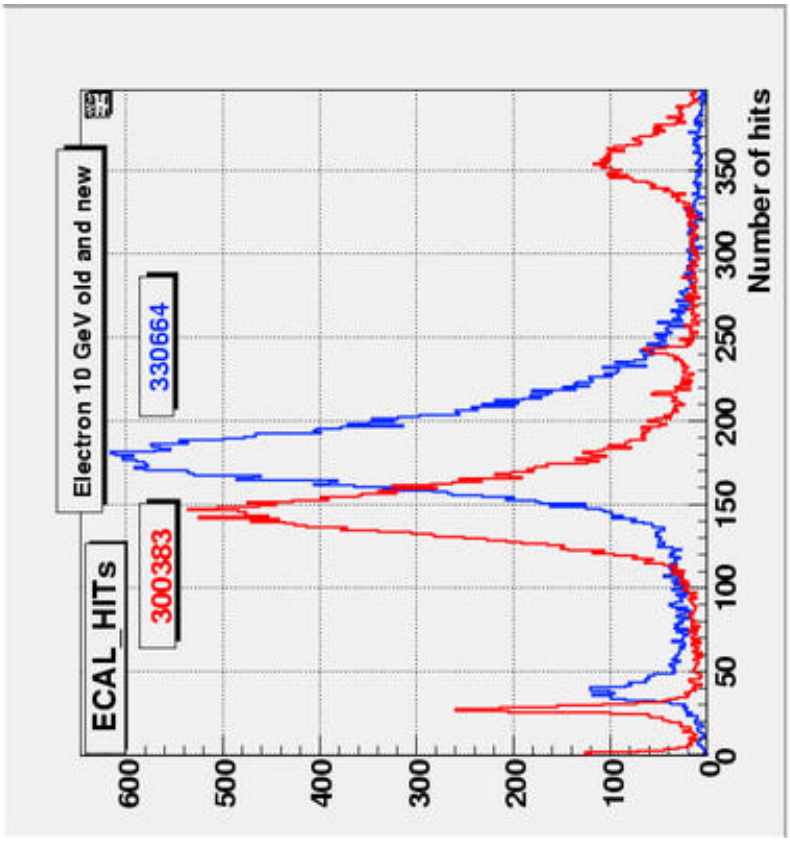
comparison of two 10 GeV electron runs from last and this year.
excess of hits and therefore energy observed in the ECAL energy sum.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/25.07/2007-07-25T14:59:40-00.pdf

2007-07-25 15:02 Vasiliy **evidence of ECAL noise**

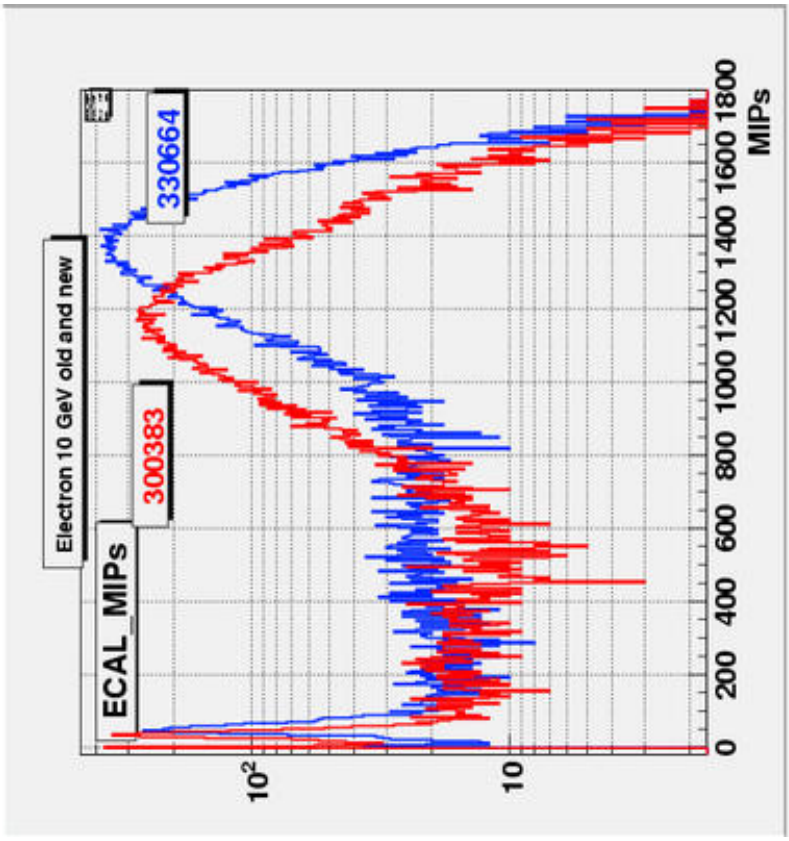
the ECAL noisy slabs contribute to the small spikes on the right of the 10 GeV peak in the spectrum, but cannot explain the overall shift between the new and old run. More coherent noise?



File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/25.07/2007-07-25T15:02:04-00.pdf

2007-07-25 15:09 Vasiliy

this shift is visible already at the MIP scale.
also note the shift at the MIP peak is smaller than the shift at the 10 GeV peak, i.e. shift proportional
to energy, not offset.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/25.07/2007-07-25T15:09:43-00.pdf

2007-07-25 20:20 Beni,Erika **HCAL expert report**

CMB work

during machine day we have opened the CMB side of the HCAL and

- reinserted CMB in layer position 10, module 12, slot/fe 17/5 which now works fine
- fixed better connections of all CMBs, some found not fully screwed in
- extracted CMB in layer 18, module 20, slot/fe 15/3 for inspection and try to fix it better especially in the bottom part where V and T calib signals are connected

after this action all CMB but 2 are working. Missing are:
layer 28, mod 1, slot/fe 12/1
layer 35, mod 34, slot/fe 5/5
both are working when setting Vcalib from CANBUS and not from the DAQ.
we set a low value from CANBUS steering (110 = 2.157 V = 28000 DAC settings from the DAQ)
and test a gain run

Pedestal stability

we have exchanged the SCSI cable for slot 5/1 B (ex 5/7 B) module 32 pos 33 we need to see if this has improved the pedestal stability over the next few runs

2007-07-25 20:22 Beni, Erika

(350068) wrong runNumber.txt should be 350087	ahcGain

note: layer 28 and 35 set to CANBUS controlled amplitude for LED
please check if anything is visible in the LED spectra
maybe light not sufficient
slot/fe 7/4 sees no light module 2
also 9/6 (module 25) has very low light, enough !?

2007-07-25 20:34 Beni, Erika

(350070) wrong runNumber.txt should be 350088	ahcPmNoise

⚠ 2007-07-25 22:45 Beni **SR loss**

I found a lot of modules with lost shift registers. Reloaded the SR.

2007-07-26 00:31 Jean-Charles, Roman, Marcel **New slabs installed**

- New slabs (bottom layers 6-11) installed, noise level is very good
- rotation tested succesfully
- regulators tests performed but rejected due to higher noise level
- New power supply (5V) installed -> back in ECAL slow control

- ECAL is off, fans are running (!)
- Position is 47,5
- crew is hungry and tired

⚠ 2007-07-26 00:35 Beni **wrong runnumbers**

Today, I had to change the data link to the non-full disk on calice02. Unfortunately, I forgot to update runNumber.txt. Therfore, we took two runs with already existing runnumbers. After consulting Roman I changed the name of the files to the runnumbers these should have been.

We have to check if these runs pass conversion and processing without problems.

2007-07-26 00:39 Beni **Switched HV off**

After the loss of SR earlier this evening I decided to switch off HCAL & TCMT HV during the night.

2007-07-26 08:01 Erika

330951	ahcPmNoise
330952	ahcGain
330953	ahcPmLedVcalibScan

many CMB off, try with Manual re-init

2007-07-26 08:59 Erika

330954	ahcPmLedVcalibScan

2007-07-26 09:09 Erika,Fabrizio,Mara **ahcCmLedVcalibScan**

330955	ahcCmLedVcalibScan

2007-07-26 09:13 Erika,Fabrizio,Mara **ahcGain**

330956	ahcGain

2007-07-26 10:41 Erika,Fabrizio,Marti **test run**

330957	beamData	10x10	-35GeV	pi-	515	4mm Pb	Air	0.1	0,0	test run

DAQ rate: 80 Hz

2007-07-26 11:00 Erika,Fabrizio,Marti **test run**

330958	beamData	10x10	-35GeV	pi-	515	4mm Pb	Air	0.1	0,0	test run

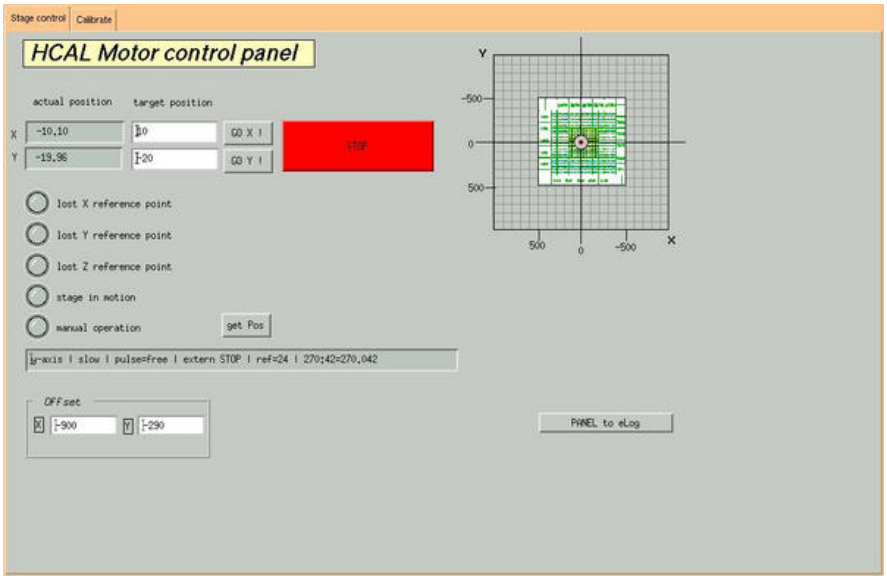
2007-07-26 11:04 Erika,Fabrizio,Marti **test run**

330959	beamData	10x10	-35GeV	pi-	515	4mm Pb	Air	0.1	0,0	test run

checking the disconnection of the drift chamber channel nearest to the ECAL = drift chamber no.2 in online monitoring program

2007-07-26 11:12 caliceon@calicehcal02.desy.de (CALICE user) **new position**

Moved stage 1cm up to move beam to geometrical center of ECAL. We used a displaced position as center beferore, as the ECAL was missing some bottom slabs.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/26.07/2007-07-26T11:12:02-00.jpg

2007-07-26 11:17 Erika **start data taking**

system in correct position
beam centered on the ECAL front fact at the real 0,0
we have been taking data sofar with the beam shifted ~1cm higher on the ECAL face to avoid shower leakage to the un-instrumented bottom.
Now with almost fully equipped ECAL we go to the geometrical 0,0
we will always refer to this point as 0,0 since this lable is meant for analysis purpouses.
The correct stage position can be retreived from the binary / lcio files

2007-07-26 11:26 Erika **beamData**

330960	beamData	10x10	-35GeV	pi-	515	4mm Pb	Air	0.1	0,0	good run, 200 k ev

2007-07-26 12:06 Erika,Fabrizio,Mar **beamData**

330961	beamData	10x10	-45GeV	pi-	518	4mm Pb	Air	0.1	0,0	good run, 200k ev

2000 pps
DAQ rate: 70 Hz
the Veto counter is OFF (power off)

2007-07-26 12:58 Erika,Fabrizio,Mar **beamData**

330962	beamData	10x10	-80GeV	pi-	512	4mm Pb	Air	0.1	0,0	good run, 200 k ev

Veto back on

2007-07-26 13:48 Erika,Fabrizio,Mar **beam cancelled**

330963	beamData	10x10	-25GeV	e-	535	Air	6mm Pb	0.46	0,0	stopped 25000 events

DAQ rate: 60 Hz
2000 pps

beam stopped after 10 minutes

CORRECTION (by Allister, Yoshi, Daniel on Aug 16, 2007): Run 330963 is actually as follows (confirmed
with paper log and hEcalEnergy gaussian fit):

330963	beamData	10x10	-40GeV	e-	531	Air	6mm Pb	0.1	0,0	150k events

2007-07-26 14:47 Erika,Fabrizio,Mar **beamData**

330965	beamData	10x10	-25GeV	e-	535	Air	6mm	0.46	0,0	good run

							Pb				

DAQ rate: 60 Hz
2000 pps

2007-07-26 17:50 all of us **rotation to 10 deg**

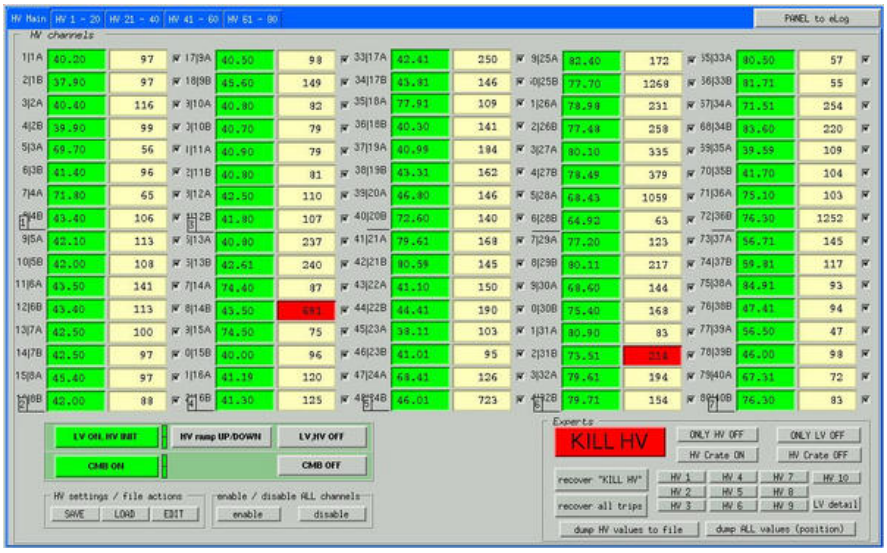
ROTATION of stage to 10deg

2007-07-26 17:51 Lukas, Alex

330967	ahcPmNoise

2007-07-26 18:25 caliceon@calicehcal02.cern.ch **change current threshold**
(CALICE user)

set higher current threshold values for
ch. 28 = layer 14B = module 16
ch. 62 = layer 31B = module 36
ch. 1 = layer 1A = module 3



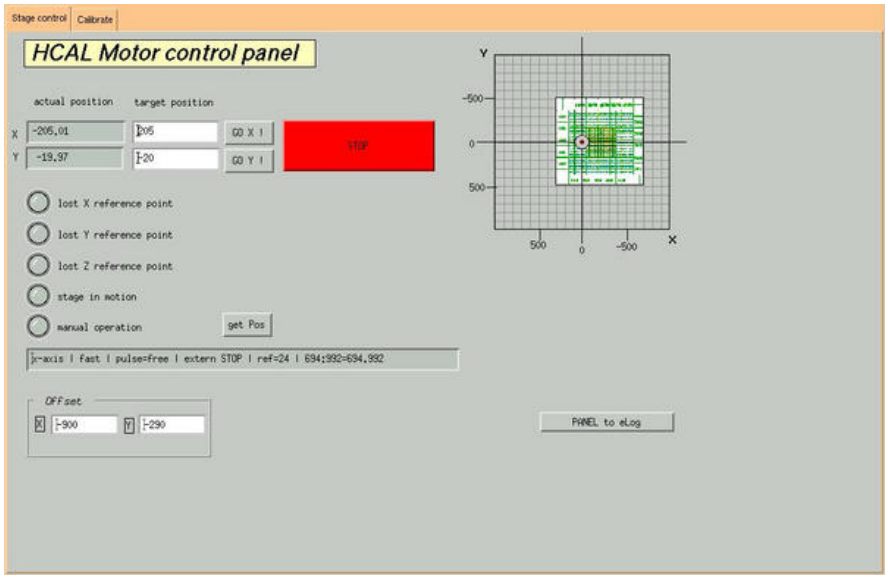
File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/26.07/2007-07-26T18:25:02-00.jpg

2007-07-26 18:59 Erika **junk runs**

runs 330968 - 330974 optimization of ECAL / HCAL position w.r.t. beam
-80GeV pi- is used but with changing conditions

2007-07-26 19:22 **new position**

We rotated to 10deg. X-Displacement neccessary to get the beam back to ECAL & HCAL center. This is the new 0,0 position.



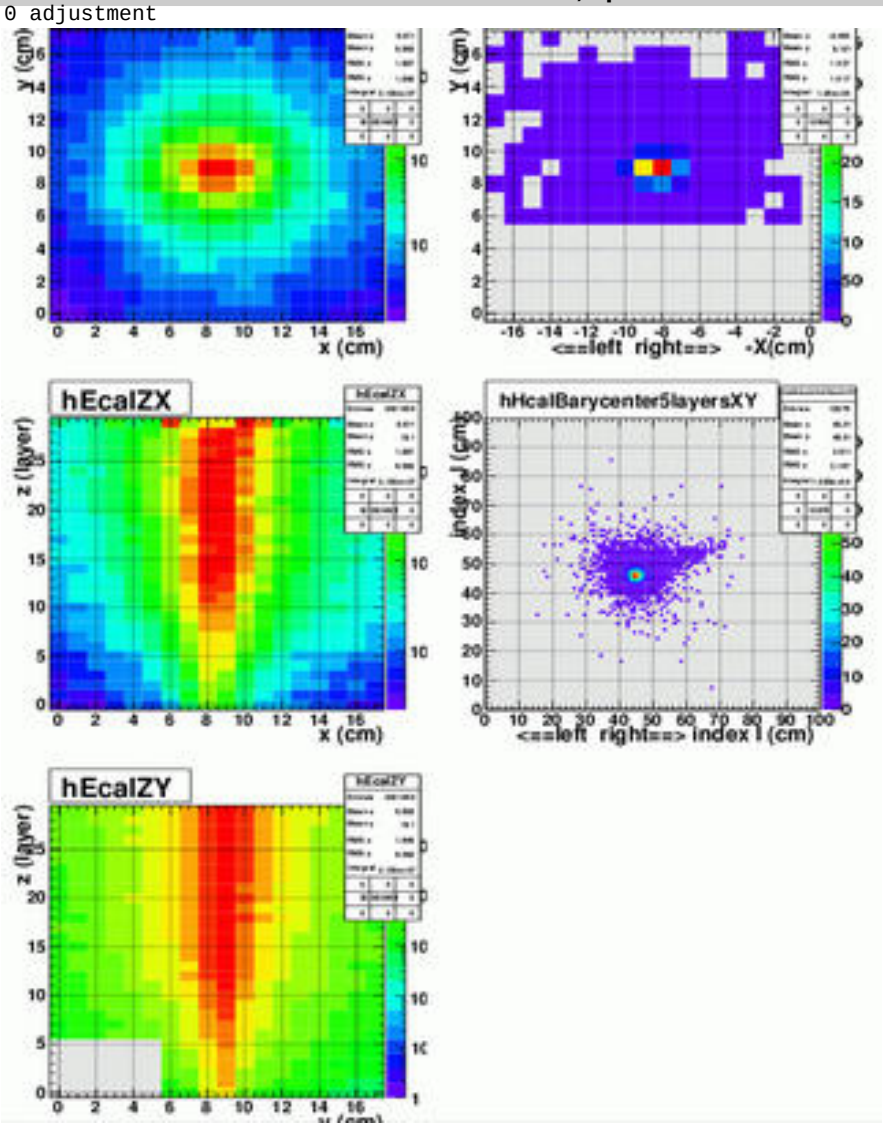
File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/26.07/2007-07-26T19:22:02-00.jpg

2007-07-26 19:23			Beni							
330975	beamData	10x10	-80GeV	pi-	510	4mm Pb	Air	1.	0,0	10deg

2007-07-26 19:24			Lukas, Alex							
330976	beamData	10x10	-35GeV	pi-	515	4mm Pb	Air	0.1	0,0	10deg, 150k ev

2007-07-26 19:38 **check of new 0,0 position**

Result of new 0,0 adjustment



File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/26.07/2007-07-26T19:38:02-00.gif

2007-07-26 20:47			Lukas, Alex							
330977	beamData	10x10	-45GeV	pi-	515	4mm Pb	Air	0.1	0,0	10deg, 150k ev

2007-07-26 21:07			Lukas, Alex							
330978	beamData	10x10	-80GeV	pi-	510	4mm Pb	Air	0.1	0,0	10deg, 150k ev

2007-07-26 21:19			Lukas, Alex							
330980	beamData	10x10	-40GeV	pi-	514	4mm Pb	Air	0.1	0,0	10deg
330979	beamData	10x10	-40GeV	pi-	514	4mm	Air	0.1	0,0	10deg,

						Pb				stopped after about 50k ev because of the collimator changes during this run

We had to adjust Collimator settings for C1,C5,C6,C10 and C11 from +-12 to +-6
and C2,C3,C8 from +-5 to +-3 since H6B_EXPT01 went up to ~100k, after change we
now have a rate of 6.3k

2007-07-26 22:11 Lukas, Alex **beam data**

330981	beamData	10x10	-50GeV	pi-	512	4mm Pb	Air	0.1	0,0	10deg

We had to adjust collimators 1,5,6,10 and 11 by 1 mm from ±6 to ±5 mm to obtain desirable rate below 11 k ev.

2007-07-26 22:46 Lukas, Alex **beam data**

330982	beamData	10x10	-100GeV	pi-	516	4mm Pb	Air	0.1	0,0	10deg

We again had to change collimation settings:
C1=4.5 C5=C6=C10=C11=5.0
Rate went from 11.3k ev to 7.5k ev

2007-07-26 22:52 Roman **Cogri Scripts restarted -> Copy to desy**

I have restarted the cogri scripts and send the
files to desy again.

Copying has resumed at run 330966.

At the same time I have started the replication of
the files of runs 330871 - 330965 frm lyon to desy.

I cannot however say whether the replication will be successful
since apparently cc lyon has dcache problems at the moment.

Cheers,

Roman

2007-07-26 23:21 Lukas, Alex

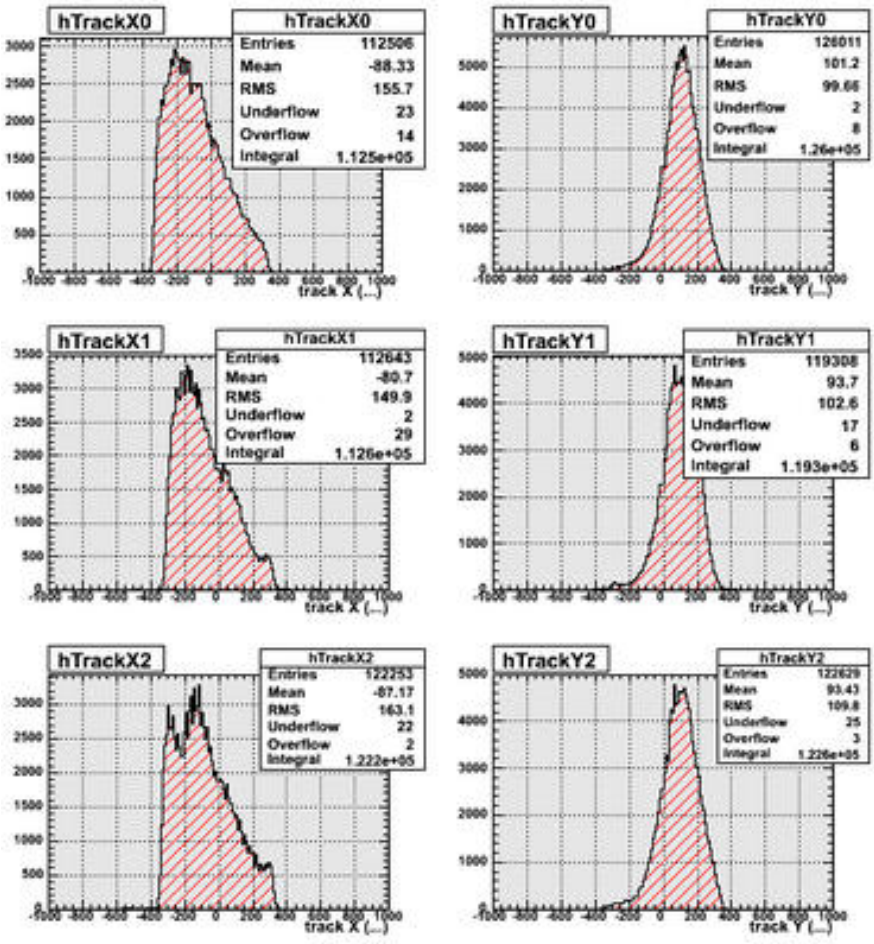
330983	beamData	10x10	-35GeV	pi-	515	4mm Pb	Air	0.1	0,0	10deg

2007-07-27 19:44 Lukas, Alex **10x10 e-**

331019	beamData	10x10	-12GeV	e-	521	Air	Air	0.8	0,0	10deg

•C1,C5,C6,C10 and C11 narrowed to ±4 mm.
•As attached screenshot prooves, the beam is way out of line.
•200k ev.

--
NOTE: This run 331019 seems to be -15GeV e-.
-Allister



File: http://ttfinfo.desy.de/CALICEelog/data/2007/30/27.07/2007-07-27T19:44:34-01.png

2007-07-27 22:49			Lukas, Alex		**10x10 pi-**					
331025	beamData	10x10	-12GeV	pi-	524	8mm Pb	Air	1.5	0,0	10deg

•Collimators C1,C5 and C6 adjusted to ±7 (therefore same value like C10 and C11) to obtain desirable pps (~2130).
•Beam was off for few minutes during run.
•~150k ev.

2007-07-27 23:33			Lukas, Alex		**10x10 pi-**					
331026	beamData	10x10	-10GeV	pi-	520	8mm Pb	Air	2	0,0	10deg

•Collimators C1,C5,C6,C10 and C11 adjusted to ±13 mm.
•~1900 pps.
•Run cancelled because of X axis adjustment.

1088 match(es) for text or title , start date = 01.07.2007, end date = 31.07.2007

Previous 0 1 2 **3** 4 5 6 7 8 9 Next

Logbook entry: /CALICEelog/data/2007/30/24.07

24.07.2007
23:18 Nicola, Hengne, Manqi

330938	beamData	-8GeV	e-	525	air	air	2.56

```
Collimator 1 5 6 10 11 reduced to +-4
rate 900 Hz

during the run changed to +-5 (at 50k events)
rate 2.5k
```

Logbook entry: /CALICEelog/data/2007/30/24.07

24.07.2007
22:09 Nicola, Hengne, Manqi

330937	beamData	-6GeV	e-	023	air	air	3.02	260k

```
collimators 6 and 11 put at -15. Rate 1.28 K
The beam looks very clean,in the Veto little presence of double particle (neglectable)
```

Logbook entry: /CALICEelog/data/2007/30/24.07

24.07.2007
21:45 Nicola, Hengne, Manqi **Back to the electron runs**

330936	beamData	-6GeV	e-	023	air	air	3.02	junk

```
trigger rate too low (<300) we increase the collimator 6 and 11 from (-10,10) to
(-20,20). Now
 trrigger rate is 3.7k
```

Logbook entry: /CALICEelog/data/2007/30/24.07

24.07.2007
21:37 Beni **changed trigger setup to 10x10**

- changed sequenceDelay in EmcConfiguration to 13
- build runner
- changed link of AHC.cfg to AHC_CERN07_beamhold_10x10.cfg

Logbook entry: /CALICEelog/data/2007/30/24.07

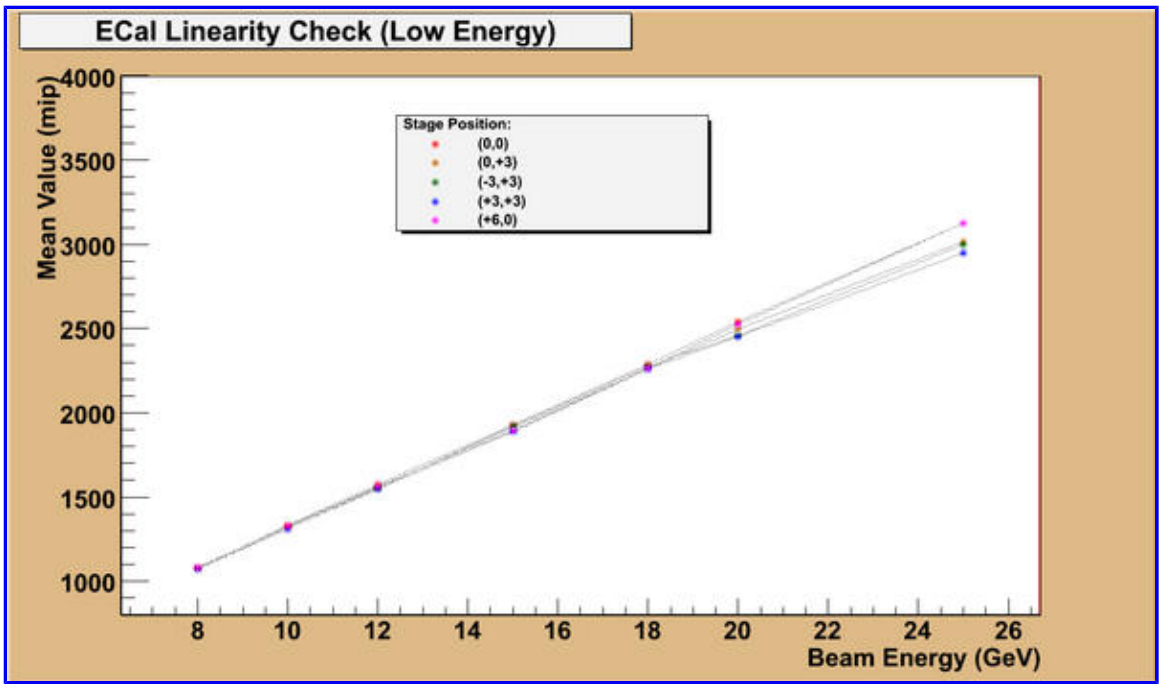
24.07.2007
17:45 Nicola, Hengne, Manqi **CHANGE of AHC.cfg**

HCAL-crate slot/fe 5/7 moved to 5/1

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
23:19 Hengne **ECal Linearity Check (Low Energy)**

```
- data of stage position (+6, 0) added
- when stage position is at (0, 0) and (+6,0), linearity seems to be better (for beam
energy lagger
 than 18 GeV)
```



Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007 Beni **changed data disk**
23:16

- changed data link on calice00
- updated runNumber.txt
- changed data link in online monitor

```
Roman will change the cogri script as soon as all runs are copied. He will tell the shift
when this
 task is finished and monitoring should continue.
```

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007 Nicola, Hengne, Manqi
21:43

330881	beamData	10x10	-12GeV	e-	524	air	air	1.882	-6,0	70k

```
-> DAQ program "TestBeamControl" seems to be dead at 22:20 23/07/2007
-> Expert is called
-> The disk is full!!!!!!!!!!!!! we are changing disk from data01 to data00
```

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007 Nicola, Hengne, Manqi
21:23

330878	JUNK RUN
330880	JUNK RUN

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007 Nicola, Hengne, Manqi
21:22

330879	beamData	10x10	-12GeV	e-	524	air	air	1.882	-6,0

```
Junk Run...
```

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
20:56 Nicola, Hengne, Manqi

330877	beamData	10x10	-12GeV	e-	524	air	air	1.882	-6,0	104k

Trigger rate: 2.2 K

From the drift chambers we observe that the alignement is not symmetrical around 0... we stop the
run
The collimator settings was WRONG... this run is NOT good for analysis

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
20:06 Nicola, Hengne, Manqi

330876	beamData	10x10	-10GeV	e-	520	air	air	2.29	-6,0	250k

collimator set up changed in order to improve the trigger rate:
collimator 1,5,6,10,11, +-6 mm
collimator 2,3,8 +-4 mm

Cherenkov efficiency 99%

The beam looks not perfectly centered. A shift of -60 in the y, and -76 in the x

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
19:54 Nicola, Hengne, Manqi

330875	beamData	10x10	-10GeV	e-	520	air	air	2.53	-6,0

JUNK RUN!!!!

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
19:26 **slow readout mapping error**

During temperature analysis I realized that the HCAL slowcontrol data records in the binary do not
match the data displayed in the HCAL slowcontrol for several modules.
Additionally, for **module 20** the records **is missing**. The values from **module 24 are displayed twice** in the record for module 18 & 24. The record of module 20 contains the values of module 18. Details are shown in the table below:

Comparing the values displayed in the slowcontrol with the records in the binary file, I found follwing
situation:

module # in bin-file	reads data from module	CMB	CAN addr.	layer	mismatch
1	1	14	1	28	
2	12	0	12	10	*
3	4	4	4	2	*
4	2	6	2	29	*
5	5	1	5	3	
6	6	7	6	4	
7	7	5	7	5	
8	8	11	8	6	
9	9	19	9	7	
10	14	8	14	12	*
11	10	2	10	8	*
12	3	12	3	1	*
13	11	13	11	9	*
14	13	18	13	11	*
15	15	3	15	13	
16	16	29	16	14	
17	23	21	23	21	*
18	24	30	24	30	*

19	22	32	22	20	*
20	21	24	21	19	*
21	18	15	20	16	*
22	19	27	19	17	*
23	17	25	17	15	*
24	24	30	24	30	
25	25	16	25	22	
26	26	22	26	23	
27	27	38	27	24	
28	28	10	28	25	
29	29	26	29	26	
30	30	23	30	27	
31	31	34	31	32	
32	32	35	32	33	
33	33	28	33	34	
34	34	37	34	35	
35	35	39	35	36	
36	36	33	36	31	
37	37	40	37	37	
38	38	36	38	38	

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
19:25 Nicola, Hengne, Manqi

330874	beamData	10x10	-8GeV	e-	525	air	air	2.53	-6,0	140k

```
Efficiency of electron detection: 99.4%
```

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
19:11 Nicola, Hengne, Manqi **electron run**

330873	beamData	10x10	-8GeV	e-	525	air	air	2.53	-6,0	27k

```
Trigger rate is 4.49 kpps
```

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
19:08 Nicola, Hengne, Manqi

330870	achCmVcalibScan
330871	achPmVcalibScan

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
19:08 Nicola, Hengne, Manqi

330872	beamData	testrun junk

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
17:56 Nicola, Hengne, Manqi **electron run**

330868	beamData	testrun junk	
330869	beamData	10x10	-8GeV e- 525 air air 2.53 -6,0 136k

```
Collimator 1,5,6,10,7 set at +-8mm
Collimator 2,3,8 set at +- 3mm
```

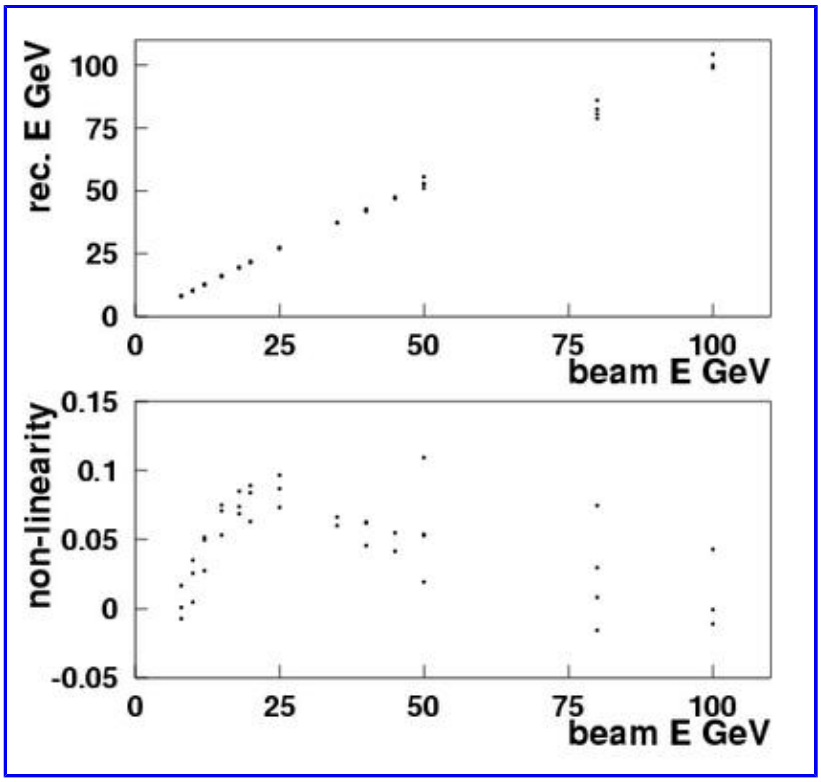
```
Trigger rate is 4.53 kpps

The cherenkov works very well. We observe 98% efficiency electron detection.
```

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
17:10 Erika **HCAL linearity (pi-)**

```
interesting the residual from linearity when normalizing to the 8 GeV point. Without
correction
 for saturation effects in SiPM the non-linearity of the HCAL response has a max at 25
 GeV of 10%.
```



Logbook entry: /CALICEelog/data/2007/30/23.07

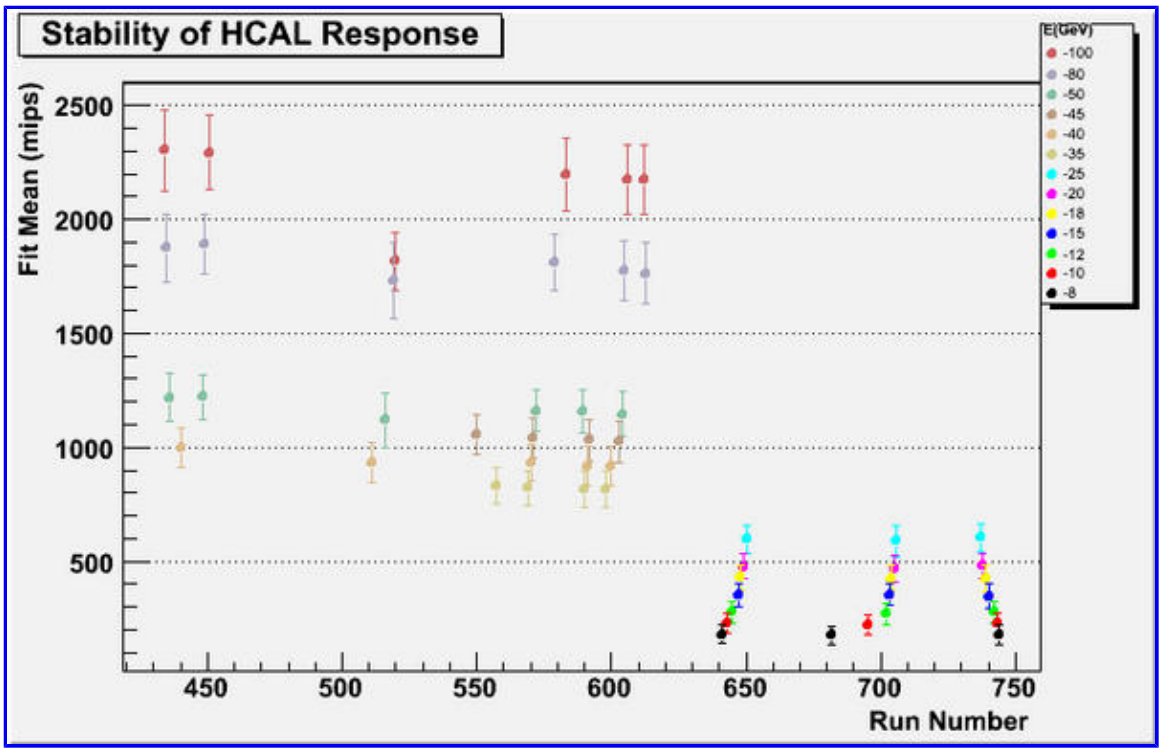
23.07.2007
14:07 Beni, Petr , Laurent

330864	ahcCmNoise	-e 20000
330865	ahcPmNoise	-e 20000
330866		junk
330867	ahcGain	

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
14:02 Oliver **stability of HCAL response**

```
I plotted the mean of the gaussian fit of hHcalEnergy for pion runs against the run
number
 (i.e. time).  The error bars are actually the gaussian sigma. The corresponding plot for
the ECAL
 can be found in the elog on the 20.07.2007. The plot has been done using the code made
 by Allister for the ECAL (thank you).
```



Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
13:54 Beni, Petr , Laurent

330863	beamData	10x10	-8GeV	e-	525	air	air	2.556	-6,0	70K Events

```
trigger rate: 6.05 kpps
DAQ rate: 85 Hz
```

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
13:48 Beni, Petr , Laurent

330860	set trim06 to -5A, wrong direction
330861	set trim06 to +5A, right direction but too much
330862	set trim06 to +4A
330863	set trim06 to +2.5 and it's good

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
13:27 Beni, Petr , Laurent **8Gev electron run**

330859	beamData	10x10	-8GeV	e-	525	air	air	2.563	-6,0	Events

```
x was not centered in drift chamber
```

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
13:19 petr , laurent

Run#	E(GeV)	mean(mips)	sigma(mips)	sigma/mean(%)
330844	15	362	53	14.6
330849	12	284	49	17.3
330850	10	232	46	19.8
330853	8	183	42	22.95

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
12:59 petr , laurent **calibration runs**

330854	ahcCmNoise	20000
330855	ahcPmNoise	20000
330856	ahcCmLedVcalibScan	
330857	ahcPmLedVcalibScan	
330858	ahcGain	

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
11:05 petr , laurent

330853	beamData	10x10	-8GeV	pi-	525	4mm Pb	air	2.5	-6,0	250k Events

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
11:02 petr , laurent **test of 6 GeV runs**

330851	beamData	10x10	-6GeV	pi-	023	4mm Pb	air	2.5	-6,0	test run only few events
330851	beamData	10x10	-6GeV	e-	023	air	air	2.5	-6,0	test run only few events

we can do 6GeV!!!
pion run has about 30% pions
electron run has a ratio 6:1 electron pions
less than 1000 particles per spill

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
10:00 petr , laurent

330850	beamData	10x10	-10GeV	pi-	520	4mm Pb	air	1.8635	-6,0	235k Events

DAQ rate: 90 Hz

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
09:17 petr , laurent

330849	beamData	10x10	-12GeV	pi-	524	4mm Pb	air	1.77	-6,0	250k Events

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
08:25

330848	beamData	10x10	-15GeV	pi-	521	4mm Pb	air	0.98	-6,0	207K events

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
08:22

330846	beamData	10x10	-15GeV	pi-	521	4mm Pb	air	0.98	-6,0	35K events	

Run stopped because we have to reload DAC setting
slot/fe 17/0 B lost setting (second time)

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
08:21

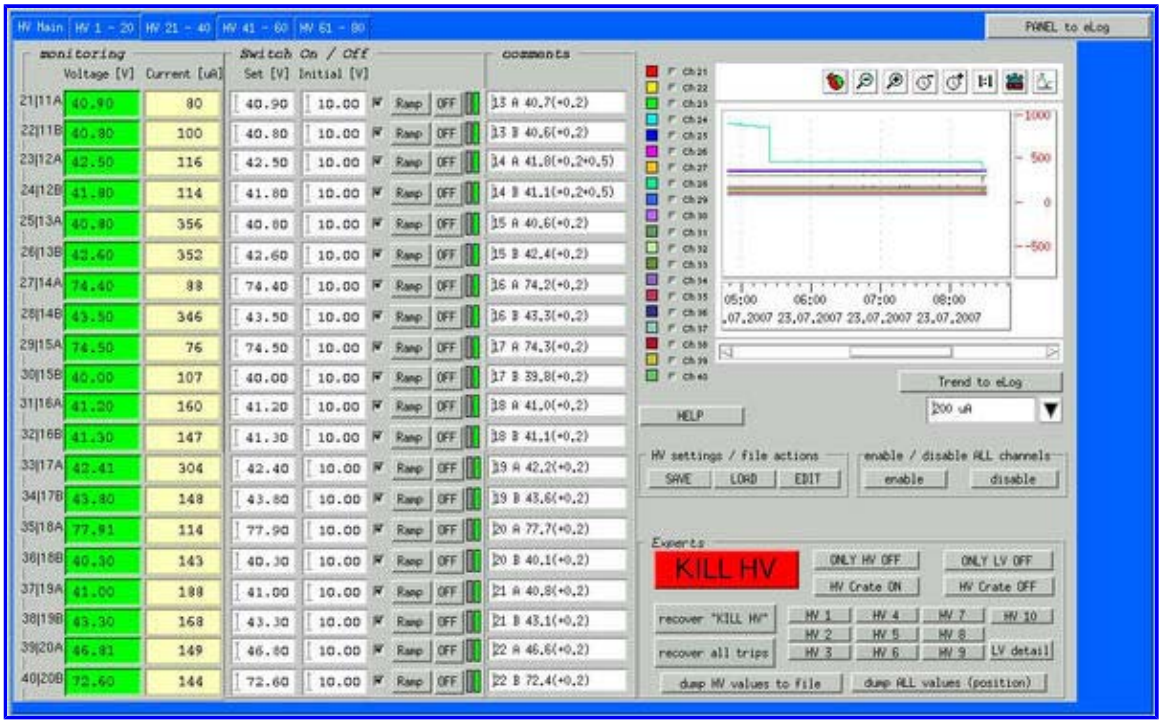
330845	beamData	10x10	-15GeV	pi-	521	4mm Pb	air	0.98	-6,0	tune

TRIM05 5A-->0.5A-->-1A-->-3A

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007 Erika **reload dac settings**
08:20

same as yeasterday slot/fe 17/0 lost settings, recovered after reload
lowered current limit for HV ch. 28



Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
07:40

330844	beamData	10x10	-15GeV	pi-	521	4mm Pb	air	0.98	-6,0	33K events stopped beam off center in Y inDC

Trim05 5A--> 1A
col1=col05=col6=col10=col11=+-10

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007 Allister, Robert, Riccardo **Comments on HV channels in HCAL**
07:22

Channels 33/17A, 1/26A and 2/31B showed seldomly, but continuously,
a red alarm due to overcurrent (compared to maximum value loaded in config file)

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
06:26 Allister, Robert, Riccardo

330840	beamData	10x10	-18GeV	pi-	523	4mm Pb	air	0.797	-6,0	144kEvents, stopped because the beam is not centered in both x and y in the DCs.
330841	beamData	10x10	-18GeV	pi-	523	4mm Pb	air	0.797	-6,0	44kEvents, adjusting both TRIM05 and TRIM06 magnets, not yet centered
330842	beamData	10x10	-18GeV	pi-	523	4mm Pb	air	0.797	-6,0	56kEvents, adjusting both TRIM05 and TRIM06 magnets, getting there...
330843	beamData	10x10	-18GeV	pi-	523	4mm Pb	air	0.797	-6,0	202kEvents, TRIM05=-2A, TRIM06=-2A, more centered now

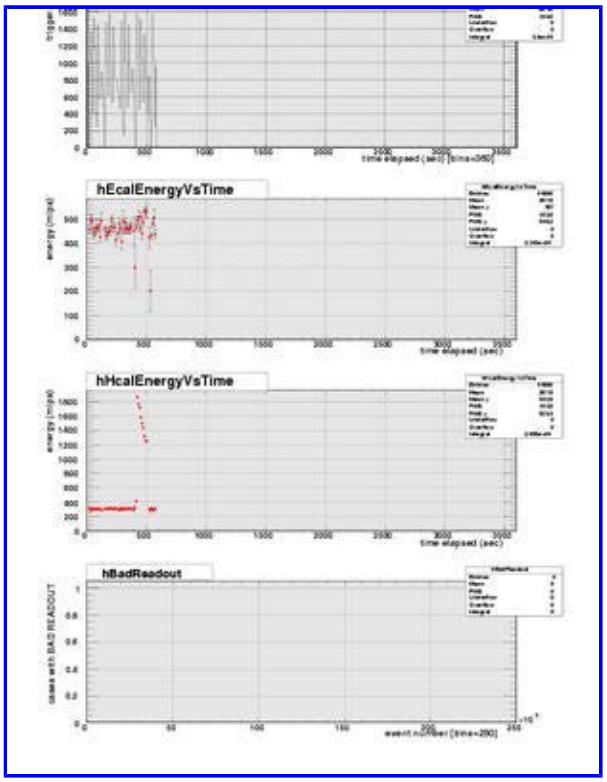
trigger rate: 2.5 kpps
DAQ rate: 80 Hz

NOTE: The beam was shifted in +y direction in run 330840. TRIM05 is therefore changed from 3A to
-1A. Also in the same run, the beam was shifted in the +x direction. TRIM06 is then changed from -3A to -2A to center the beam.

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
06:08 Allister, Robert, Riccardo **sudden jump in HCAL energy**

The second peak at larger energy correspond to the 8-points jump of the energy(mips) as visible in the picture below

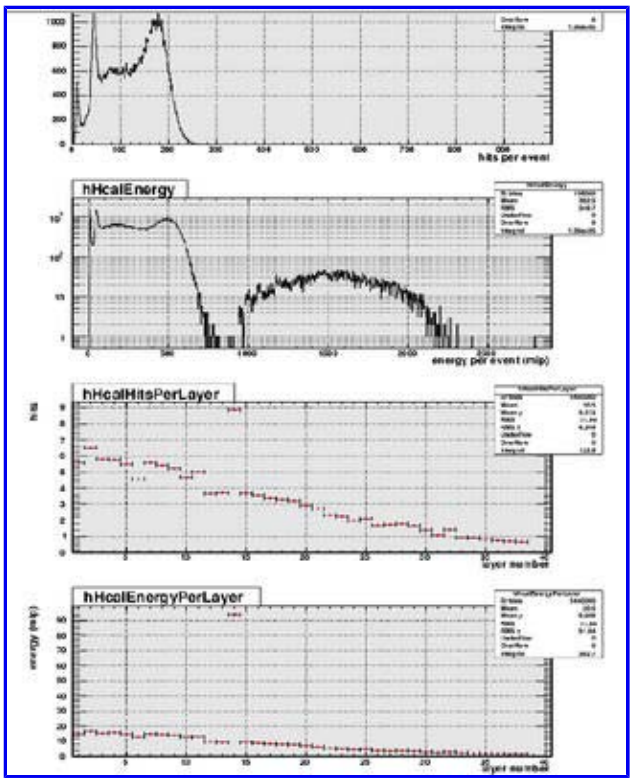


Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
05:59 Allister, Robert, Riccardo **sudden jump in HCAL energy**

We observed a sudden jump in the HCAL energy in run#330839. We can't figure out the reason yet.
We didn't notice any problem with the beam at this point. And from the ECAL, we don't see anything strange.

EDIT: after some investigation we found the cause of the strange bump, no new discovery unfortunately,
just layer 14 of HCAL = module 16 = slot/fe 17/0 being very noisy because of DAC settings
lost. please reset immediately HCAL DAC settings when you see something like this again.



Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
05:03 Allister, Robert, Riccardo

330839	beamData	10x10	-20GeV	pi-	523	4mm Pb	air	0.682	-6,0	212kEvents

trigger rate: 3.3 kpps

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
04:58 Allister, Robert, Riccardo

330838	beamData	10x10	-20GeV	pi-	523	4mm Pb	air	0.682	-6,0	15kEvents

Changed TRIM06 reference current from -3.333A to -2A and see how the beam position changes.
Correction seems to work fine.

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
04:47 Allister, Robert, Riccardo

330837	beamData	10x10	-20GeV	pi-	523	4mm Pb	air	0.682	-6,0	52kEvents

10x10 trigger rate: 3.36 kpps
DAQ rate: 84 Hz
stopped to correct the beam position (not centered on DCs)

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
04:10 Allister, Robert, Riccardo

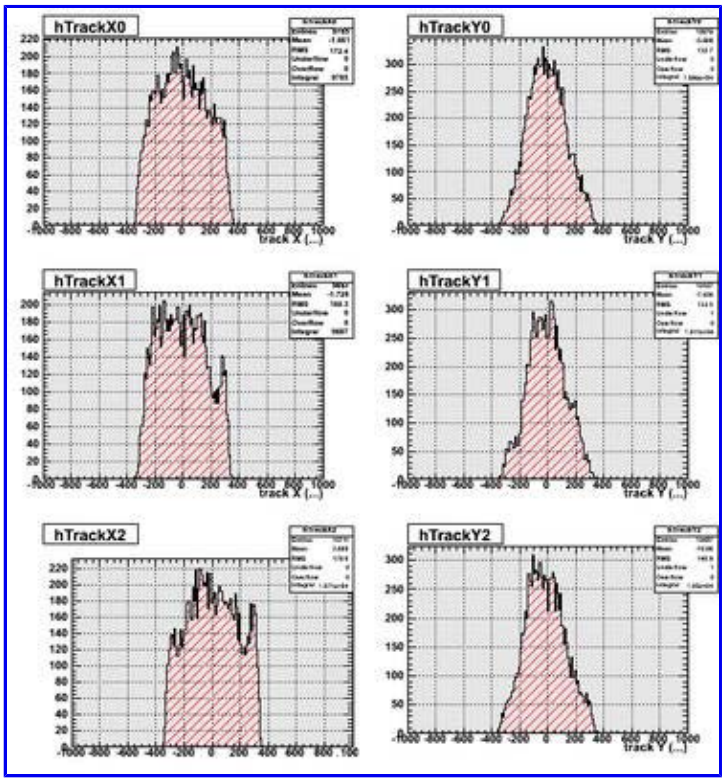
Fit result of HCAL pion energy spectrum

Run#	E(GeV)	mean(mips)	sigma(mips)	sigma/mean(%)
330836	25	616	69	11.2
330839	20	494	62.3	12.6
330843	18	434	62.1	14.3

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007 03:52 Beni **8GeV x position check**

After the bad x beam position in the last 8GeV run I wanted to retune the 8GeV file. But after reloading
the beam file the position is ok. I expect that the effect comes from some magnet failure.
We should keep an eye on this.



Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007 03:51 Allister, Robert, Riccardo, Beni **pion run**

330836	beamData	10x10	-25GeV	pi-	526	4mm Pb	air	0.4115	-6,0	250kEvents

10x10 trigger rate: 3.6 kpps
DAQ rate: 80 Hz

Logbook entry: /CALICEelog/data/2007/30/23.07

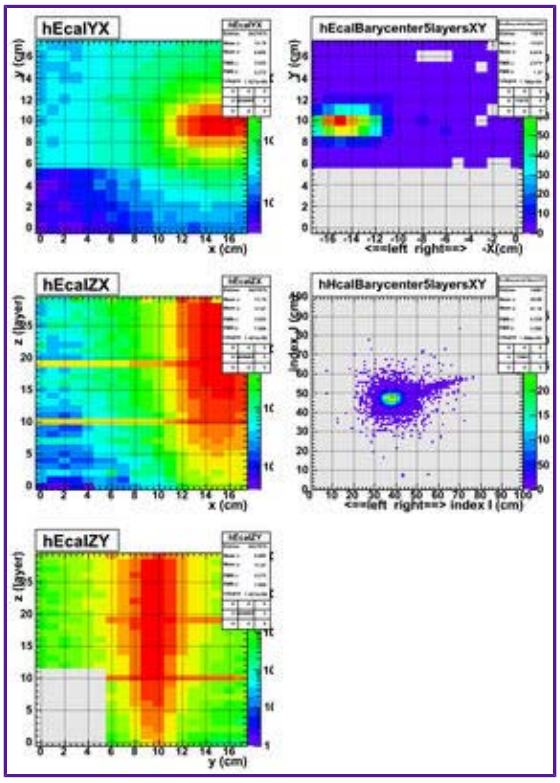
23.07.2007 03:46 Allister, Robert, Riccardo, Beni

330835	beamData	10x10	-8GeV	e-	526	air	air	0.4115	-6,0	junk, short run for position check, 15kEvents

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007 03:39 Allister, Robert, Riccardo, Beni **position check**

position in ECAL (-6;0)



Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007 03:29 Allister, Robert, Riccardo, Beni **calibration data**

330834	ahcPmLedVcalibScan

Logbook entry: /CALICEelog/data/2007/30/23.07

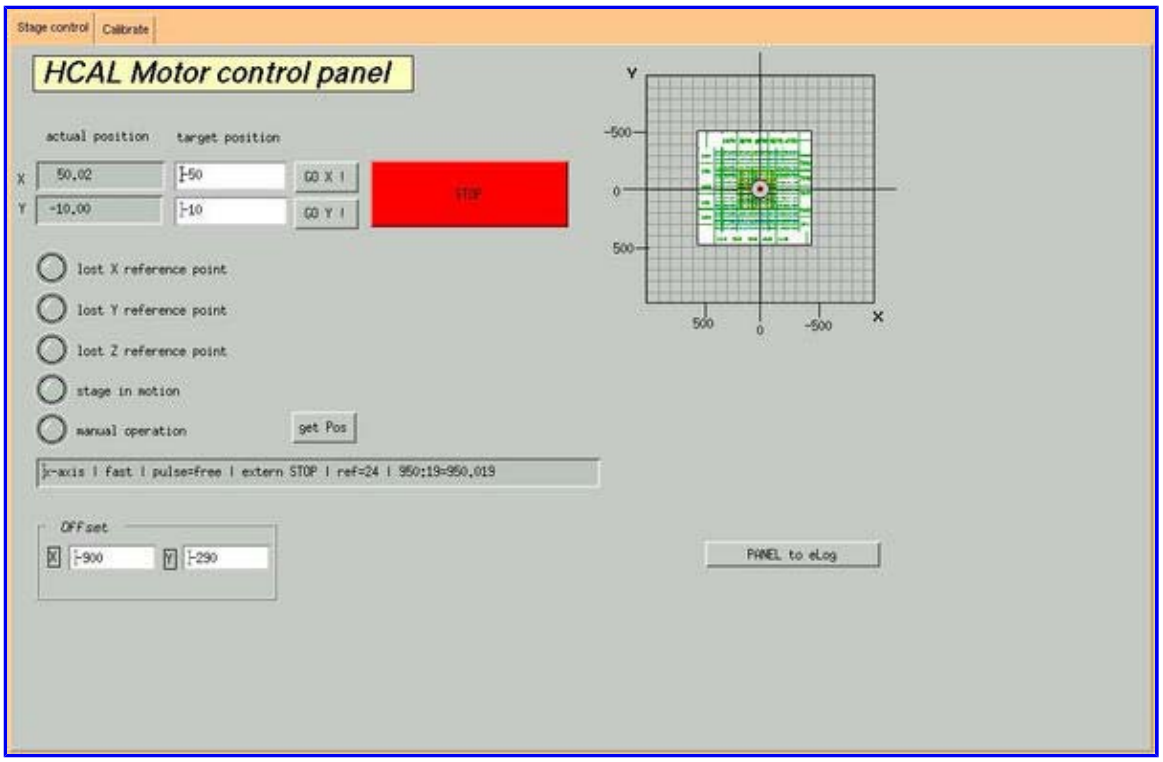
23.07.2007 03:26 Allister, Robert, Riccardo, Beni **position check**

330833	beamData	10x10	-25GeV	pi-	526	4mm Pb	air	0.4115	-6,0	short run for position check, 15kEvents

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007 03:17 caliceon@calicehcalsc02.cern.ch (CALICE user) **new position**

moved to (-6;0), in stage coordinates this is (-50,-10). Actually, the difference in the stage coordinate
system is 13 cm in respect to the last position. But we used this position before and for a 12 cm movement (checkrun 330829) we are more at -5 than at -6 in the ECAL coordinate
system.



Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007 03:09 Allister, Robert, Riccardo **calibration runs**

330830	ahcCmNoise	-e 20000
330831	ahcPmNoise	-e 20000
330832	ahcCmLedVcalibScan	

Logbook entry: /CALICEelog/data/2007/30/23.07

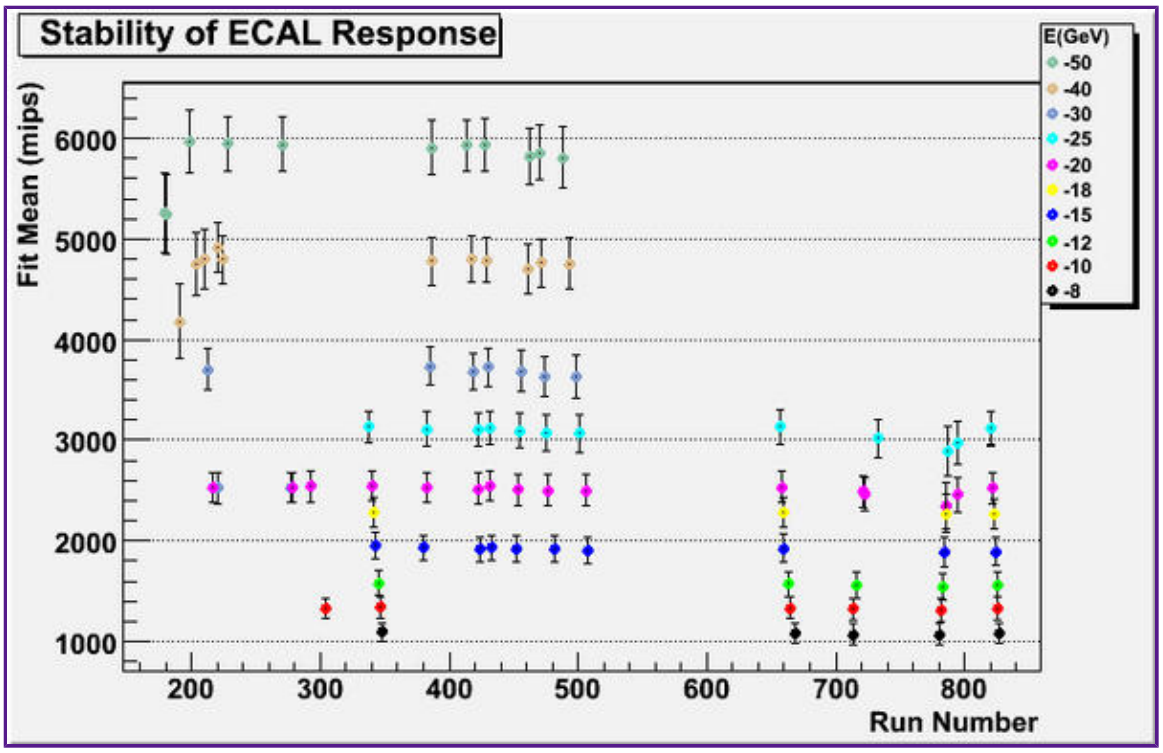
23.07.2007 03:02 Allister, Robert, Riccardo **position check**

330829	beamData	10x10	-25GeV	pi-	526	4mm Pb	air	changing	-6,0	short run for position check

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007 02:39 Allister, Robert, Riccardo **stability of ECAL response (update)**

gaussian fit mean of hEcalEnergy vs Run Number (i.e. time). error bars are actually the fit sigma.



Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
02:38

Allister, Robert, Riccardo

calibration runs

330828	ahcGain

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
02:29

Allister, Robert, Riccardo

Guassian Fit for recent electron runs

Run#	E(GeV)	mean(mips)	sigma(mips)	sigma/mean(%)
330821	-25	3126	168.2	5.38
330822	-20	2525	151.3	5.99
330823	-18	2263	150.6	6.65
330824	-15	1895	141.8	7.14
330825	-12	1566	123	7.85
330826	-10	1326	114.3	8.62
330827	-8	1082	104.6	9.67

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
02:25

Allister, Robert, Riccardo

330827	beamData	10x10	-8GeV	e-	525	air	air	2.52	-6,0	250 Kevents

trigger rate 4.7K

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
02:22

Allister, Robert, Riccardo

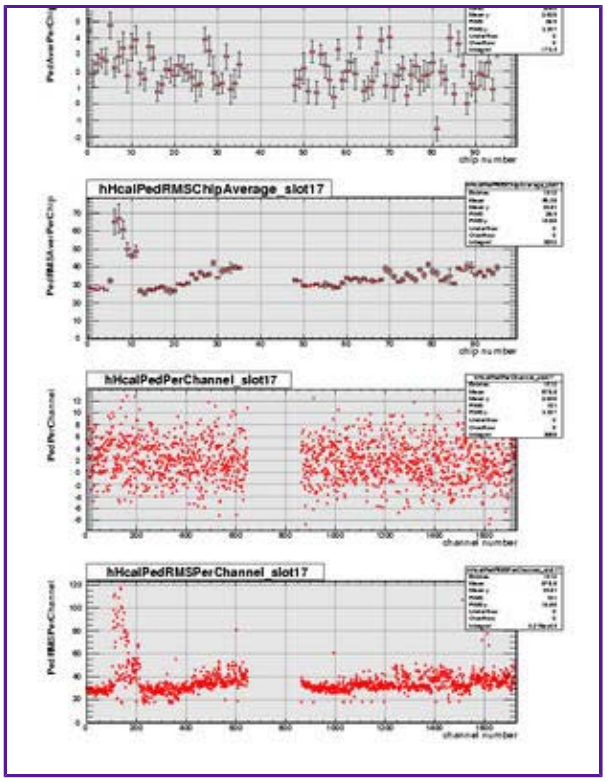
slow conversion of data files from bin to slcio

We notice a significant delay in the conversion of bin files into lcio. The upload of the bin files
to the grid seems to be going well nevertheless.
Current bin file uploaded: 330826.004
Current lcio file uploaded: 330820

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007 Allister, Robert, Riccardo
01:03

```
See low channels noisy in slot 17 for HCAL
Data: 12GeV e- run
```

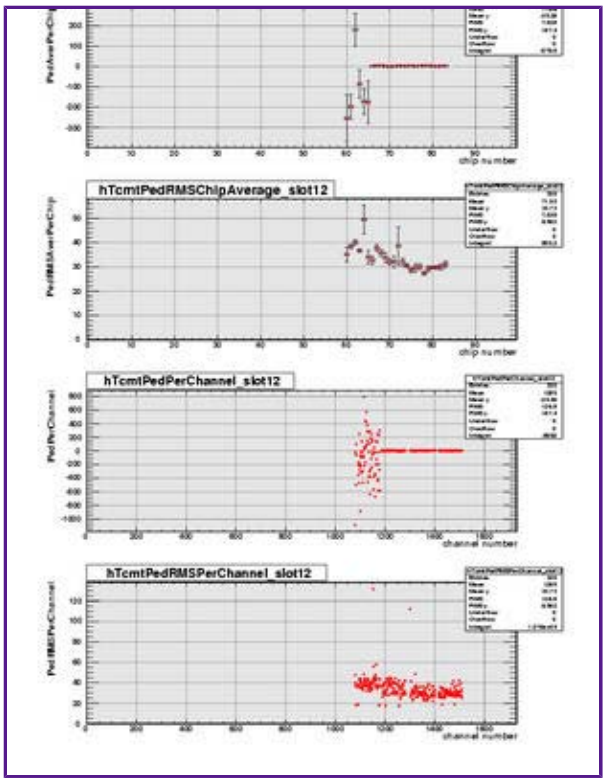


Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007 Allister, Robert, Riccardo
01:00

```
RMS for pedestals in TCMT looks better compared to the reference map

Data: 12GeV e- run
```



Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
00:58 Allister, Robert, Riccardo **electron run**

330826	beamData	10x10	-10GeV	e-	520	air	air	2.29	+6,0	252kEvents

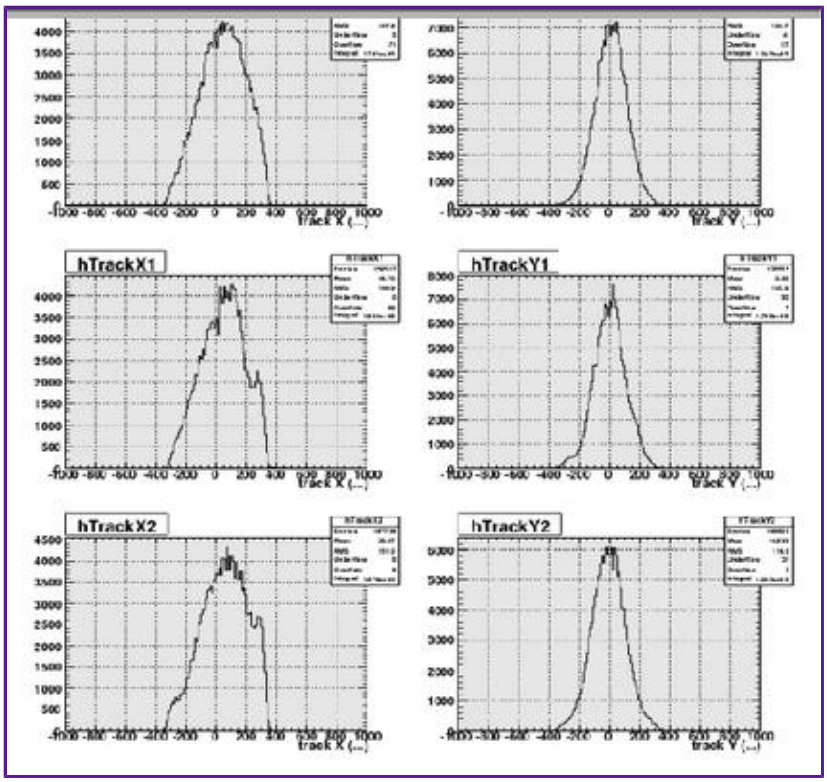
```
10x10 trigger rate: 9.65 kpps
DAQ rate: 92 Hz
Collimator settings:
COLL01=COLL05=COLL06=COLL10=COLL11= +/-5mm
COLL02=COLL03=COLL08= +/-5mm
```

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
00:51 Allister, Robert, Riccardo

```
Beam centered in Y (see zoomed boxes) but not in X, where we observe
average values of 40-50 units

Data: 12GeV e- run
```

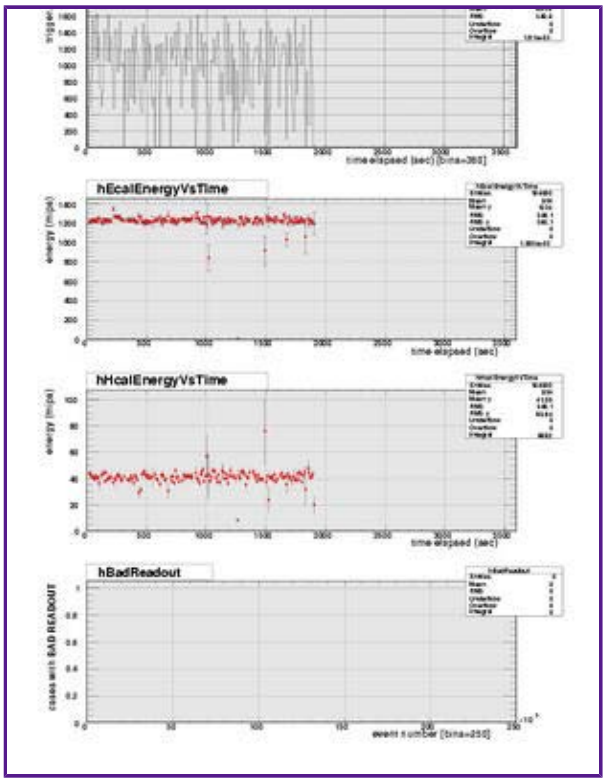


Logbook entry: /CALICEelog/data/2007/29/22.07

23.07.2007
00:47

```
Beam centered in Y (see zoomed boxes), but  not in X where we observe
average values of 40-50 Units.

Data referring to 12GeV e- run
```



Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007 Allister, Robert, Riccardo **electron run**
00:11

330825	beamData	10x10	-12GeV	e-	524	air	air	1.86	+6,0	257kEvents

10x10 trigger rate: 9.6 kpps
DAQ rate: 97 Hz
Collimators reduced a bit just to reduce the 20x20 trigger rate which was slightly above 11kpps.

New settings:
COLL01=COLL05=COLL06=COLL10=COLL11= +/-5.5mm
COLL02=COLL03=COLL08= +/- 4.0mm
New trigger rates:
10x10 7.3 kpps
20x20 8.5 kpps

Logbook entry: /CALICEelog/data/2007/30/23.07

23.07.2007
00:08 Allister, Robert, Riccardo **new shift**

Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
22:13 Oliver, Hengne, Manqi **Guassian Fit for electron run 330821-330822**

run	E	mean	sigma
330821	25 GeV	3114	175.6
330822	20 GeV	2519	155.0

Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
20:44 Hengne/Oliver/Manqi **electron run**

- load beam file 523, set cherenkov pressure to 0.688 bar,
  trigger rate : 24kpps
- close collinators to:
  COLL01=COLL05=COLL06=COLL10=COLL11=+/-4 mm
- trigger rate reduced to : 2.4kpps

330822	beamData	10x10	-20GeV	e-	523	Air	Air	0.688	+6,0	400KEvents

Trigger rate 2.4 kpps
DAQ rate: 80Hz

Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
19:30 Hengne/Oliver/Manqi **electron run**

330821	beamData	10x10	-25GeV	e-	526	Air	Air	0.42	+6,0	400KEvents

Trigger rate 7.25 kpps
DAQ rate: 90Hz

Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
19:16 Hengne/Oliver/Manqi **electron run**

330820	beamData	10x10	-25GeV	e-	526	Air	Air	0.4	+6,0	1KEvents

Trigger rate 7.21 kpps
DAQ rate: Hz

Stopped , adjusting cherenkov presure, goto 0.42 bar to enhance efficency for triggering electrons.

Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
19:02 Hengne/Oliver/Manqi/Beni

```
- Ceasar/NetBeans is  working again:
- loaded beam file 526 -25GeV
- due to high rate in 10*10 trigger,  reduced collinator openings:
   COLL01=COLL05=COLL06=COLL10=COLL11 : from 6.0 mm to 5.0mm
   COLL02=COLL03=COLL08 : from 3.0mm to 2.5mm
- 10*10 trigger rate is now 7.0 kpps
```

Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
19:01 **CESAR problem solved**

SPS
Sunday 22-Jul-2007 Afternoon

#	Time	SFTPRO2	Comment
1	15:00		Claude,Ron created by spsop on cwo-ccc-a71c
2	17:40		when the physicist from H6 tried to load a beam file in CESARhe got the following error messages: Annotation: Exception occurred in Request Processor org.springframework.jdbc.UncategorizedSQLException: Hibernate operation: Could not execute JDBC batch update; uncategorized SQLException for SQL [insert into LOGBOOK (NAME, LOGDATE, WHO, LOCATION, WHY, WHAT, LOGTIME, ID) values (?, ?, ?, ?, ?, ?, ?, ?)]; SQL state [72000]; error code [1536]; ORA-01536: space quota exceeded for tablespace 'DATA01' ; nested exception is java.sql.BatchUpdateException: ORA-01536: space quota exceeded for tablespace 'DATA01' created by spsop on cwo-ccc-a71c
3	18:04		we call Vito and he suggests to call mister Roman Gorbonosov. Roman instructed us to reboot cs-ccr-spsea1. This didn't solve the problem created by spsop on cwo-ccc-a71c
4	18:05		After we told Roman that in the error messagge there was a line "space quota exceeded for tablespace 'DATA01'" he suggested to call Chris roderick to increase the quota so that we can work until tomorrow. created by spsop on cwo-ccc-a71c
5	18:20		We cannot reach Chris and call R. Billen He suggested to call Oracle support created by spsop on cwo-ccc-a71c
6	18:20		Oracle support is not ansvering created by spsop on cwo-ccc-a71c
7	18:34		Chris called and he will call Roman to know what he can erase in oprder to liberate some space because he is unable to increase the quota created by spsop on cwo-ccc-a71c
8	18:49		Chris called again to let us try again to send a file with cesar and it works. Problem is solved. created by spsop on cwo-ccc-a71c

Logbook entry: /CALICEelog/data/2007/29/22.07

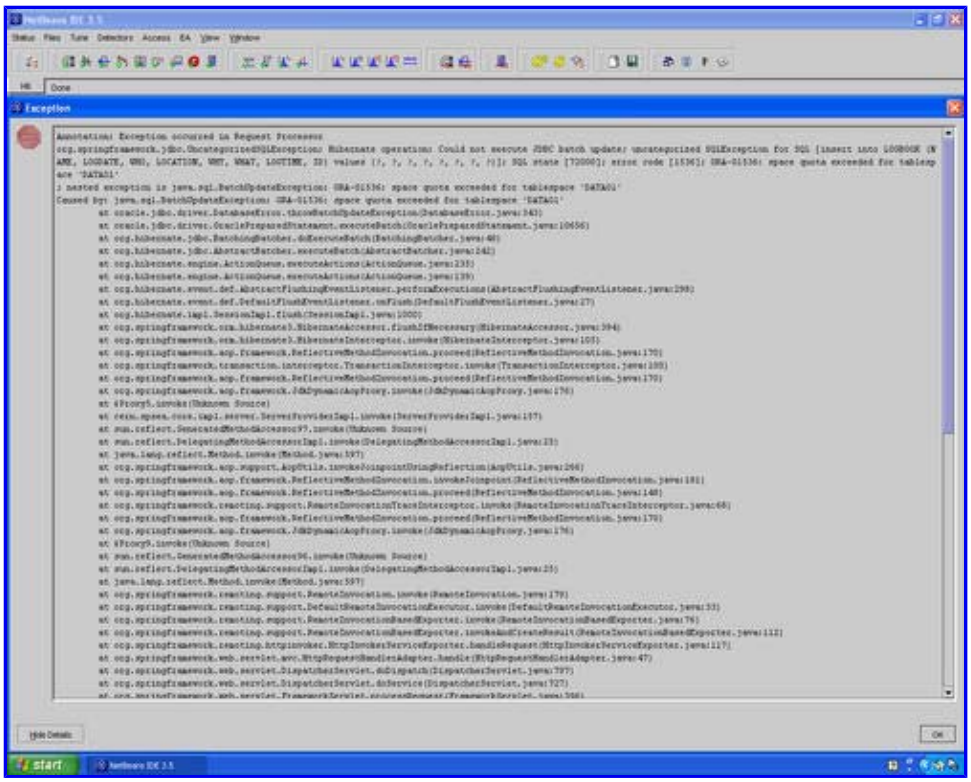
22.07.2007
17:30 Hengne/Oliver/Manqi/Beni

```
Problems with Beam steering: the Program Cesar/NetBeans does not allow anymore changes to
the beam
 setup.
=> it always throws exceptions and doesn't change anything
=> called control room => control room called expert => expert suggest to call other
expert
 => other expert is not reachable => control room calls other other expert =>
 other other experts suggests to call oracle support => oracle support doesn't answer

=> other expert called control room => other expert called expert to delete some space
=> problem solved

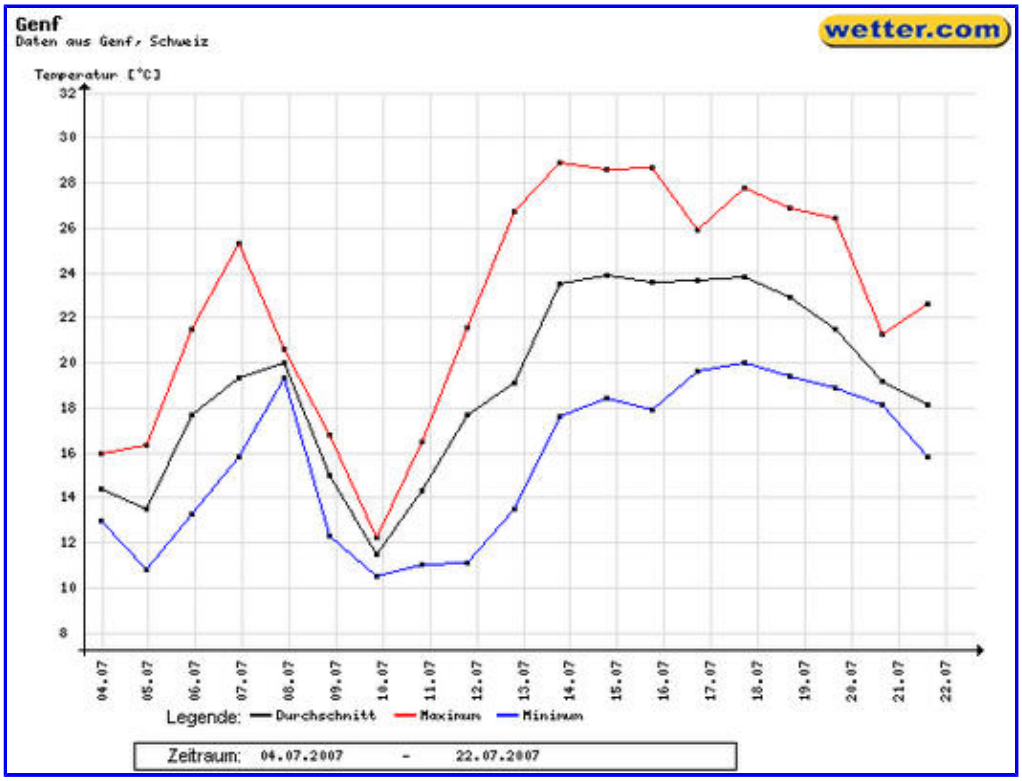
REMARK: We do not know on what settings the system got stuck. We checked the scalers in
the computer
 room and we have 2k events in 10x10. So we do not worry about the detector.

SEE ALSO: entry from 19:01
```



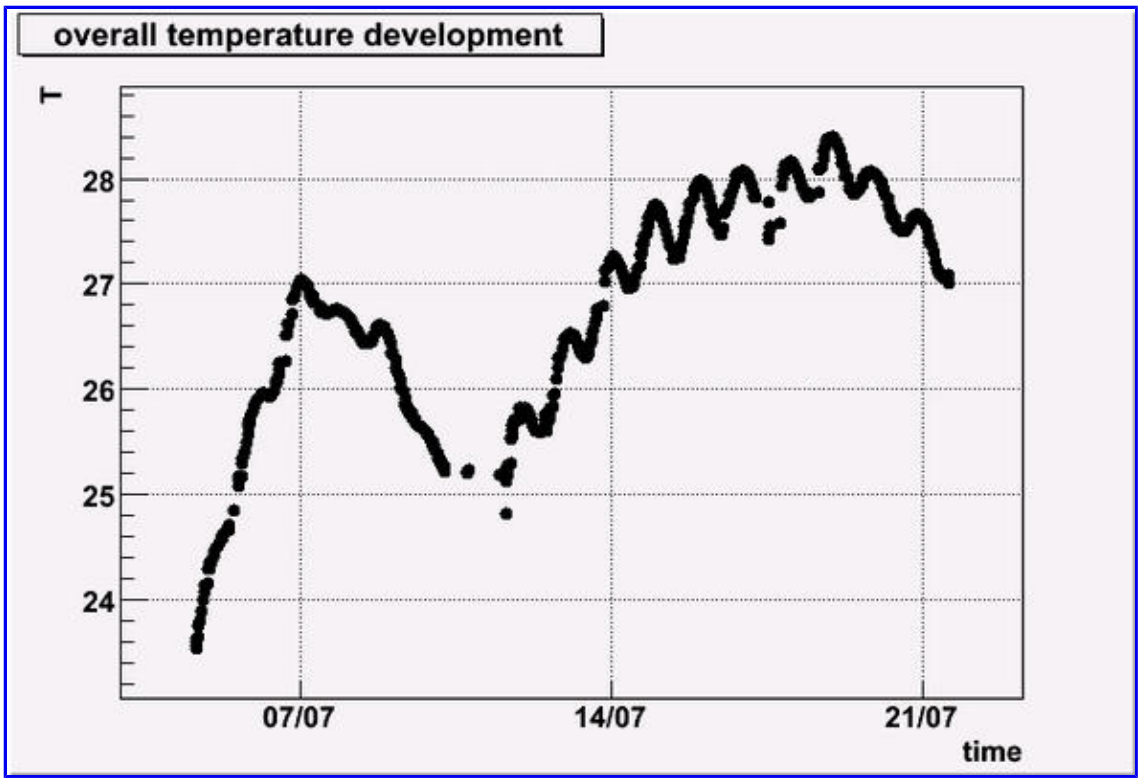
Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007 16:35 Beni **Geneva temperature development**



Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007 16:31 Beni **temperature development**



Logbook entry: /CALICEelog/data/2007/29/21.07

22.07.2007 16:30 Manqi **Re: Mistake in elog**

I had modified the record in elog about absorber and target for run 330478-330508. Thanks for point
out.

Logbook entry: /CALICEelog/data/2007/29/22.07

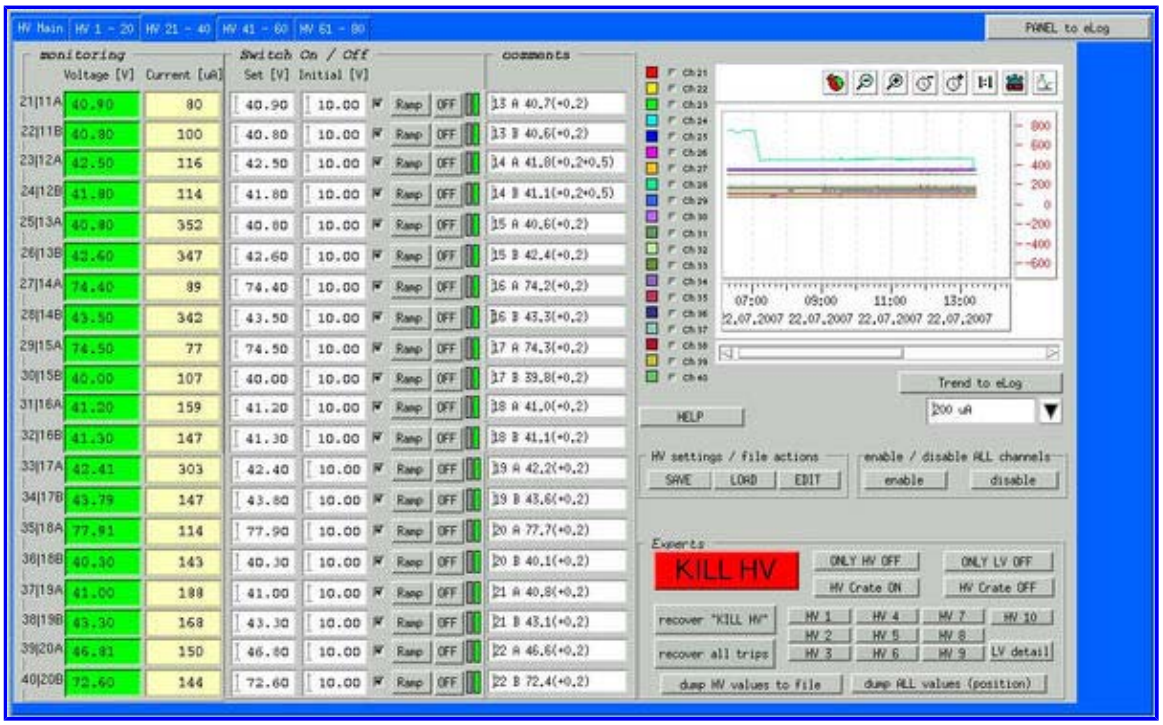
22.07.2007 15:27 Brient,Morin,Lutz

run	type	E	sigma	m
330796	pi	25	70.55	608.5
330797	pi	20	63.8	486.5
330798	pi	18	63.84	435.1
330799	pi	18	61.76	435.2
330801	pi	18	62.95	435.1
330802	pi	15	58.09	359.1
330803	pi	12	52.34	283.3
330804	pi	12	52.59	282.6
330806	pi	12	49.72	275.8
330807	pi	10	44.09	222.2
330808	pi	10	47.82	221.43
330809	pi	8	40.77	178.58

Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007 13:14 caliceon@calicehcalsc02.cern.ch (CALICE user) **module 16 B noisy**

channel 28 HV = module 16 B = slot/fe 17/0 current dropped after DAC setting reload
current limit for channel 28 changed from 740 to 350



Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
10:12 Morien, Brient, Lutz **18 GeV pions**

330798	beamData	10x10	-18GeV	pi-	522	4mm Pb	air	0.93	+6,0	18 K events

```
trigger rate 3.6k
DAQ rate 80 Hz
```

Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
09:17 Morin, Brient, Lutz

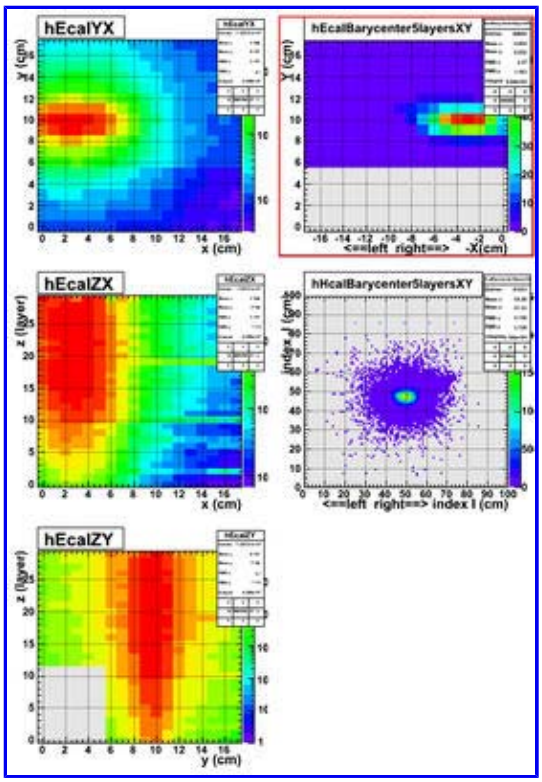
330797	beamData	10x10	-20GeV	pi-	523	4mm Pb	air	0.75	+6,0	250k

```
trigger rate 4.7 K
DAQ rate 83 Hz
```

Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
08:48 **position check in 2D display**

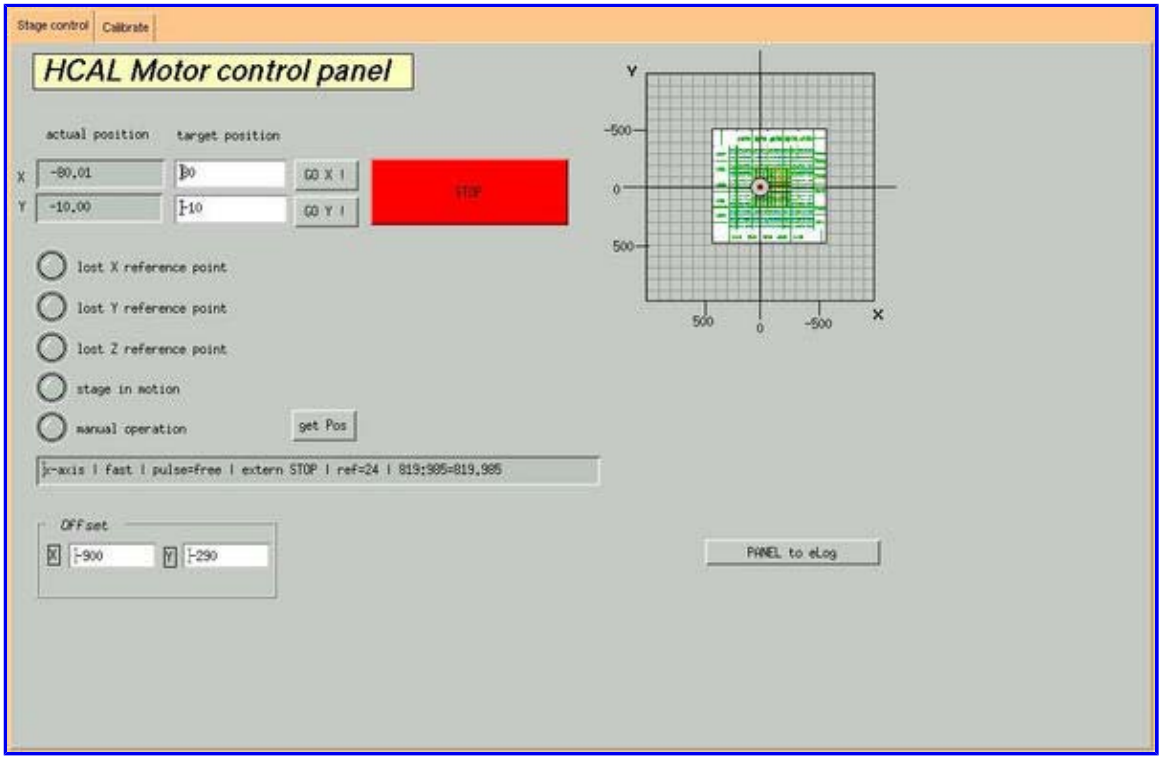
```
ECAL position (+6,0)
```



Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007 08:20 caliceon@calicehcalsc02.cern.ch (CALICE user) **new position**

```
moved to (+6,0) which is (80,-10) in stage coordinates
```

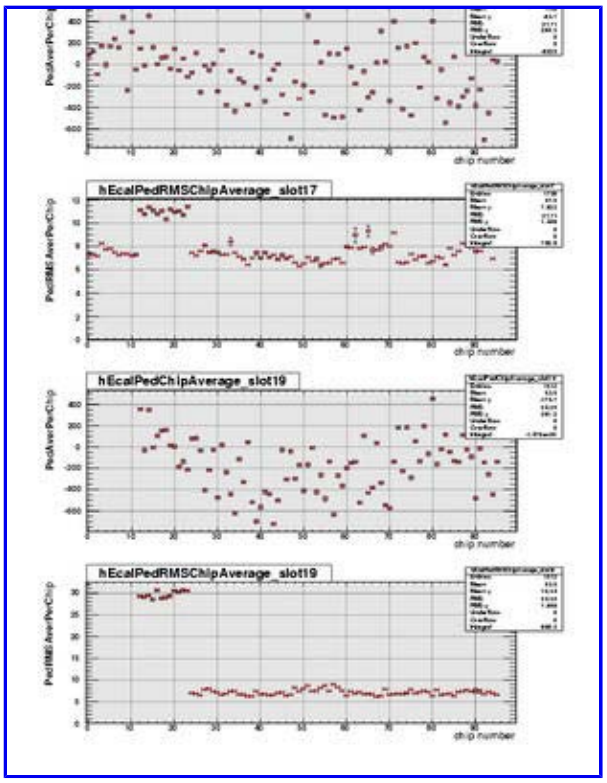


Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007 08:00 Morin, Brient, Lutz **new shift**

Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
07:51 Ricardo/Nicola/Kieffer **Jump in RMS for ECAL ped**



Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
06:57 Ricardo/Nicola/Kieffer

330795	beamData	10x10	-20GeV	e-	523	air	air	0.76	+3,+3	260k Events

Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
06:12 Ricardo/Nicola/Kieffer

330794	beamData	10x10	-25GeV	e-	526	air	air	0.48	+3,+3	253k Events

Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
05:42 Ricardo/Nicola/Kieffer

330793	ahcGain

Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
05:30 Ricardo/Nicola/Kieffer

330792	ahcPmLedVcalibScan

Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
05:28 Ricardo/Nicola/Kieffer

330791	ahcCmLedVcalibSscan

Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
05:26 Ricardo/Nicola/Kieffer

330790	ahcPmNoise

Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
05:25 Ricardo/Nicola/Kieffer

330789	ahcCmNoise

Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
04:53 Ricardo/Nicola/Kieffer

330788	beamData	10x10	-25GeV	e-	526	air	air	0.48	+3,+3	216k Events

DAQ rate: 94 Hz

Large contamination in e-sample. Run repeated at 25GeV e-.

Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
03:20 Nicola, Riccardo, Robert

330787	beamData	10x10	-25GeV	e-	526	air	air	0.48	+3,+3	460k Events

DAQ rate: 94 Hz

Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
01:56 Ricardo/Nicola/Kieffer

330786	beamData	10x10	-20GeV	e-	523	air	air	0.76	+3,+3	416k Events

DAQ rate: 88 Hz

Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
01:13 Ricardo/Nicola/Kieffer

330785	beamData	10x10	-18GeV	e-	522	air	air	0.94	+3,+3	251k Events

DAQ rate: 88 Hz

Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
00:20 Ricardo/Nicola/Kieffer

330784	beamData	10x10	-15GeV	e-	521	air	air	1.35	+3,+3	255k Events

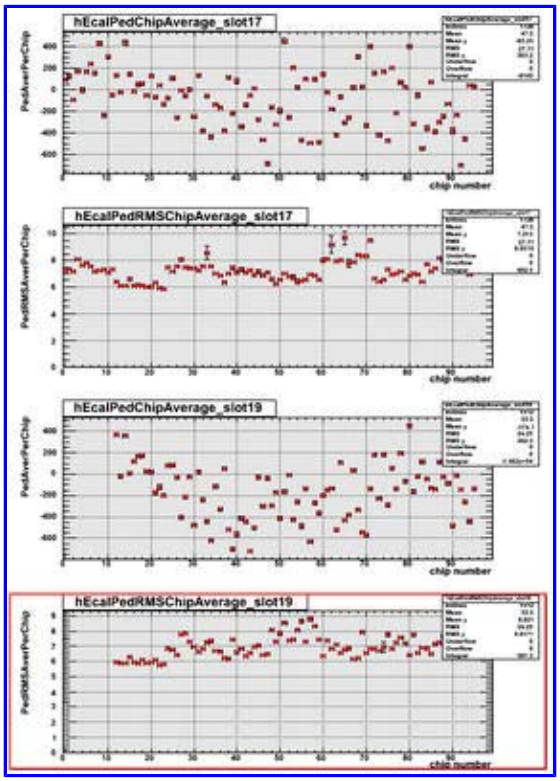
DAQ rate: 77 Hz

Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
00:09 Oliver/Allister/Hengne

noisy ECAL slots 17 and 19 monitor (shot 5)

noisy ECAL slots 17 and 19 monitor (shot 5)

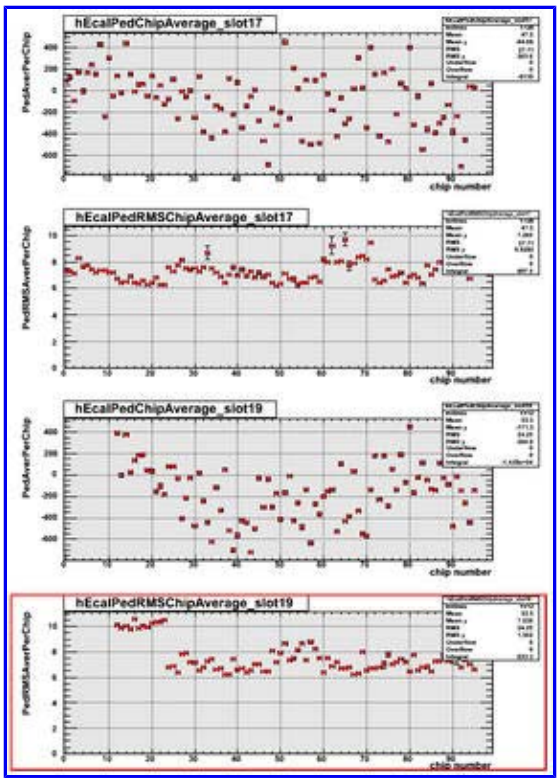


Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
00:08 Oliver/Allister/Hengne

noisy ECAL slots 17 and 19 monitor (shot 4)

noisy ECAL slots 17 and 19 monitor (shot 4)

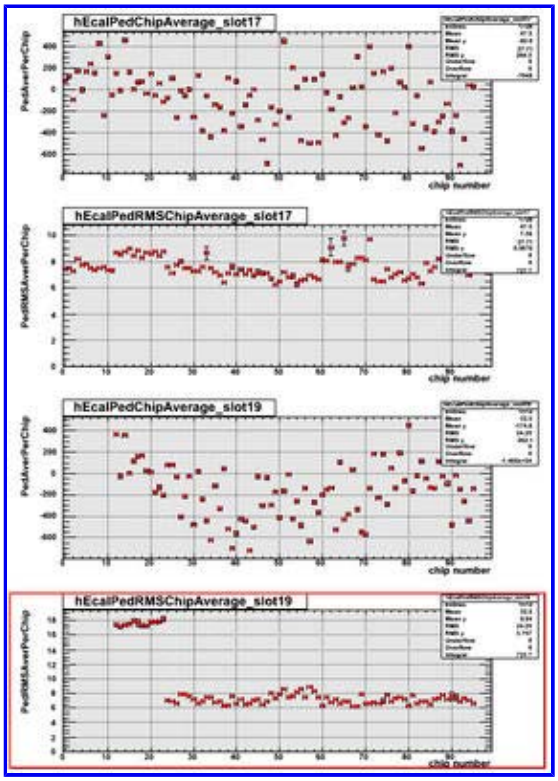


Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
00:08 Oliver/Allister/Hengne

noisy ECAL slots 17 and 19 monitor (shot 3)

```
noisy ECAL slots 17 and 19 monitor (shot 3)
```

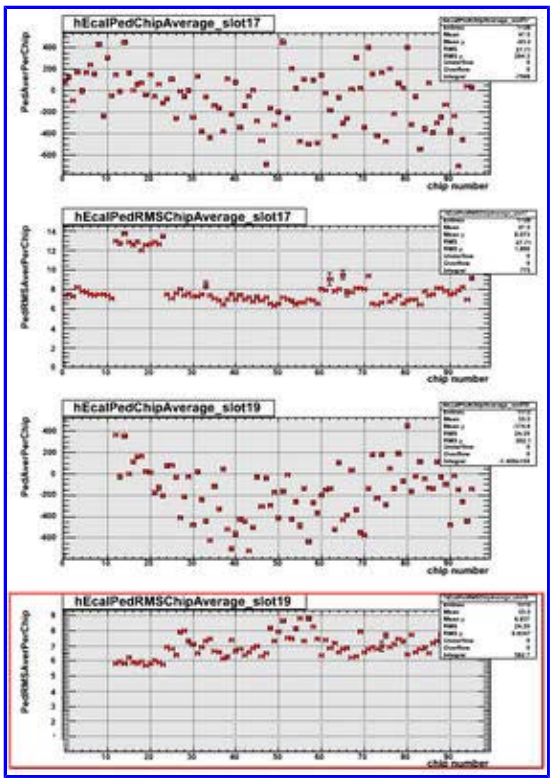


Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007
00:07 Oliver/Allister/Hengne

noisy ECAL slots 17 and 19 monitor (shot 2)

```
noisy ECAL slots 17 and 19 monitor (shot 2)
```



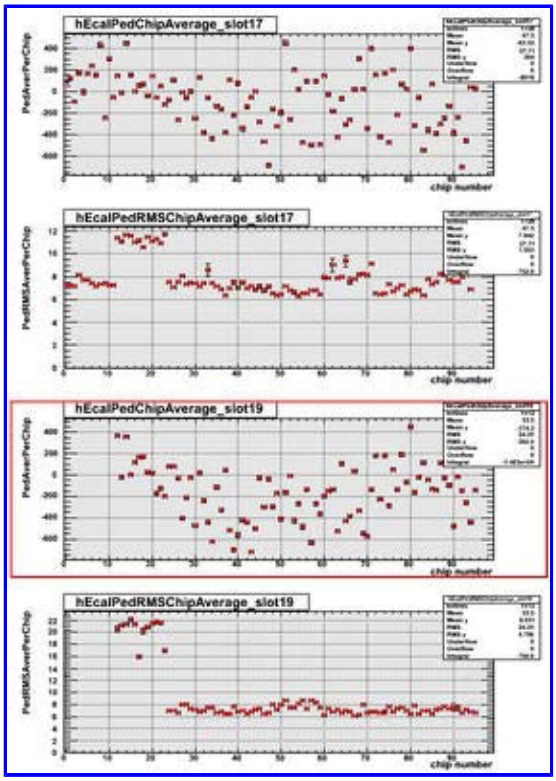
Logbook entry: /CALICEelog/data/2007/29/22.07

22.07.2007 Oliver/Allister/Hengne

00:06

noisy ECAL slots 17 and 19 monitor (shot 1)

```
noisy ECAL slots 17 and 19 monitor (shot 1)
```



2007-07-20 00:53 Manqi, Petr, Nicola **ahcCMNoise Run**

330697	ahcCmNoise	

2007-07-20 00:55 Manqi, Petr, Nicola

beam lost, linac cooling problem

2007-07-20 00:56 Manqi, Petr, Nicola **ahcPMNoise**

330698	ahcPmNoise	

2007-07-20 00:59 Manqi, Petr, Nicola **ahcCMLedVScan run**

330699	ahcCmLedVcalibScan	

2007-07-20 01:05 Manqi, Petr, Nicola **ahcPMLedVScan run**

330700	ahcPmLedVcalibScan	

2007-07-20 01:22 Manqi, Petr, Nicola **ahcGain run**

330701	ahcGain	

2007-07-20 06:26 Manqi, Petr, Nicola **ahcCmNoise**

330707	ahcCmNoise	

2007-07-20 06:29 Manqi, Petr, Nicola **ahcPmNoise**

330708	ahcPmNoise	

2007-07-20 06:32 Manqi, Petr, Nicola **ahcCMLedVScan run**

330709	ahcCmLedVcalibScan	

2007-07-20 06:39 Manqi, Petr, Nicola **ahcPmLedVScan run**

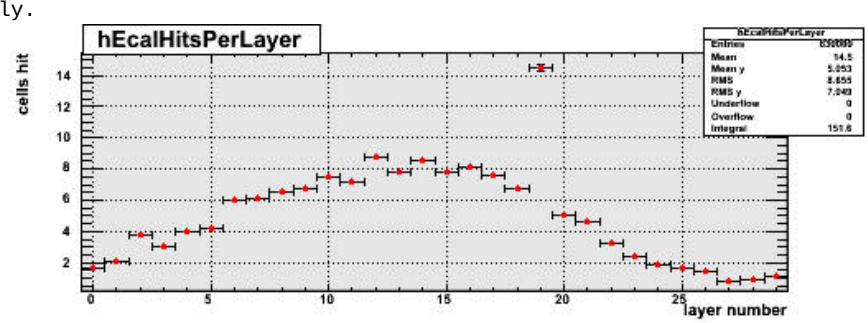
330710	ahcPmLedVcalibScan	

2007-07-20 07:00 Manqi, Petr, Nicola **ahcGain**

330711	ahcGain	

2007-07-20 08:37 Morin, Fabbri **Noise in layer 19 of the Ecal**

The layer 19 of the Ecal is much more noisy than yesterday morning.
The ratio of the number of its hits with the neighbouring channels ones oscillates sizably.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/20.07/2007-07-20T08:37:49-00.png

2007-07-20 10:05 kieffer, Fabbri,

Morin

330715	beamData	10x10	-10GeV	e-	520	air	air	2.6	0,+3	7.8K

The rate was increasing so we close col11 to -4 4 mm.
trigger rate 7.8K

2007-07-20 10:35 kieffer, Fabbri, Morin

330715	beamData	10x10	-10GeV	e-	520	air	air	2.6	0,+3	~9K

Run stopped with ~9K events

2007-07-20 10:36 kieffer, Fabbri, Morin

330716	beamData	10x10	-12GeV	e-	524	air	air	2.11	0,+3	250k Events

2007-07-20 11:42 kieffer, Fabbri, Morin

330717	beamData	10x10	-15GeV	e-	521	air	air	1.35	0,+3	120 KEvents

2007-07-20 12:08 Roman **Freeing Diskspace**

Hi there,

I am about to free ~800 GByte diskspace on data01.

The action is ongoing and should be ready in ~30 Min.

=> data01 is available to store data. The link can be switched now.

Cheers,

Roman

2007-07-20 12:09 kieffer, Fabbri, Morin

330718	beamData	10x10	-15GeV	e-	521	air	air	1.35	0,+3	??

Garbage!!

2007-07-20 12:10 kieffer, Fabbri, Morin

330719	beamData	10x10	-15GeV	e-	521	air	air	1.35	0,+3	130k Events

2007-07-20 12:37 kieffer, Fabbri, Morin

330720	beamData	10x10	-18GeV	e-	522	air	air	0.94	0,+3	250k Events

2007-07-20 13:26 kieffer, Fabbri, Morin

330721	beamData	10x10	-20GeV	e-	523	air	air	0.76	0,+3	150k Events

trigger rate 9.8K
many pion contamination

2007-07-20 14:21 kieffer, Fabbri, Morin

330723	ahcCmNoise	-e 20000	
330724	ahcPmNoise	-e 20000	

2007-07-20 15:04 Beni **changed data disk**

changed data location to data01
- changed link on calice00
- changed link in online monitor

2007-07-20 15:14 Beni

330725	ahcBeamHoldScan	10x10	unknown	unknown	N/A	N/A	N/A	N/A	0,+3	summer studenst

										are playing with the beam

35K events accumulated

2007-07-20 16:01 kieffer, Fabbri, Morin

330726	Calibration: ahcCmLedVcalibScan
330727	Calibration: ahcPmLedVcalibScan

2007-07-20 16:29 Beni **change in DaqConfiguration.hh**

There was a wrong setting for the number of configurations in the ahcPmLedVcalibScan. Number of configurations is now 32 instead of 65

2007-07-21 00:14 Manqi, Petr, Nicola

330742	beamData	10x10	-12GeV	pi-	524	4mm Pb	air	2.08	-3,+3	230k Events

continue from 330741 run due to lost beam

2007-07-21 01:05 Manqi, Petr, Nicola

330743	beamData	10x10	-10GeV	pi-	520	4mm Pb	air	2.5815	-3,+3	250k Events

DAQ rate: 85 Hz

Some electron component in ECAL energy Spectrum. Try thick absorber next run

2007-07-21 02:04 Manqi, Petr, Nicola

330744	beamData	10x10	-8GeV	pi-	525	8mm Pb	air	2.9816	-3,+3	k Events

DAQ rate: 51 Hz

2007-07-21 03:40 Manqi, Petr, Nicola **calibration runs**

330745	ahcCmNoise	calibration
330746	ahcCmNoise	calibration

2007-07-21 03:42 Manqi, Petr, Nicola **calibration runs**

330747	ahcCmLedVcalibScan	calibration

2007-07-21 03:49 Manqi, Petr, Nicola **calibration runs**

330748	ahcPmLedVcalibScan	calibration

2007-07-21 03:57 Manqi, Petr, Nicola **calibration runs**

330749	ahcGain	calibration

2007-07-21 04:24 Manqi, Petr, Nicola

330750	beamData	10x10	-8GeV	e-	525	air	air	2.9816	-3,+3	250k Events

DAQ rate: 97 Hz

2007-07-21 04:31 Manqi **Summary of Current Electron Runs**

Here is a summary of all the current electron run with statistic > 100 k is given.

07/07/2007

Layer 2 keeps noisy
low hit ratio layer 15, 17;
large low energy tail

RunNum	Energy	Beam event Num	Main Peak position	Main Peak Width	Sigma/Mean	Comments
330179	50	227k	5233	413	7.9%	
330180	50	130.3k	5204	417	8.0%	
330189	50	65k	5145	405.5	7.9%	
330191	40	144.3k	4140	396.5	9.6%	

08/07/2007
Longitudinal profile better than those of 07/07/2007.
Only non significant noisy layer exists

RunNum	Energy	Beam event Num	Main Peak position	Main Peak Width	Sigma/Mean	Comments
330199	50	128k	5969	314	5.3%	Slightly noisy layer 12
330203	40	230k	4775	305.5	6.4%	Ecal noisy layer 12
330210	40	228.6k	4792	300	6.3%	Ecal noisy layer 12
330212	30	75.8k	3686	221	6.0%	Ecal noisy layer 6, 12
330213	30	85.2k	3684	221	6.0%	(212, 213)-> one file. beam position changed
330217	20	230.8k	2515	159.3	6.3%	Slightly noisy layer 12
330220	30	239.2k	2510	162.2	6.5%	Slightly noisy layer 12
330224	40	230k	4760	256	5.4%	Ecal noisy layer 12
330228	50	227.8k	5906	294	5.0%	Ecal noisy layer 12

09/07/2007-10/07/2007
Most runs for this 2 days are mu runs or pion runs

RunNum	Energy	Beam event Num	Main Peak position	Main Peak Width	Sigma/Mean	Comments
330270	50	181.2k	5887	294	5.0%	Noisy layer 16
330278	20	184.4k	2504	167	6.7%	
330293	20	121k	2528	155.7	6.2%	

11/07/2007
Many hadrons in the beam.

RunNum	Energy	Beam event Num	Main Peak position	Main Peak Width	Sigma/Mean	Comments
330337	25	163k	3115	168	5.4%	Ecal noisy layer 2, 12, 16
330340	20	180.2k	2516	159.3	6.3%	Ecal noisy layer 2, 6, 12, 16
330341	18	186k	2254	160.2	7.1%	Ecal noisy layer 12, 16
330343	15	182k	1941	139	7.2%	Ecal noisy layer 0, 2, 6, 12, 16
330347	10	182k	1336	110.5	8.3%	Ecal noisy layer 0
330348	8	181k	1083	95.7	8.8%	Ecal noisy layer 12

13/07/2007

RunNum	Energy	Beam event Num	Main Peak position	Main Peak Width	Sigma/Mean	Comments
330380	15	230k	1917	134	7.0%	Slightly

						noisy layer 2, 6, 12
330383	25	228.3k	2521	155	6.1%	
330386	40	191k	4742	249.4	5.3%	Ecal noisy layer 12
330387	50	60k	5867	287.8	4.9%	Ecal noisy layer 12
330413	50	228.1k	5882	281.9	4.8%	Ecal noisy layer 12
330418	40	228.9k	4753	251.1	5.3%	Ecal noisy layer 12
330419	30	228.7k	3665	189.4	5.2%	

14/07/2007

RunNum	Energy	Beam event Num	Main Peak position	Main Peak Width	Sigma/Mean	Comments
330420	25	50k	3078	182.9	5.9%	
330422	25	187.7k	3088	179.7	5.8%	
330423	20	229.5k	2498	161	6.4%	
330427	50	50k	5901	275.7	4.7%	Ecal noise layer 12
330428	50	190k	5903	279.6	4.7%	Ecal noise layer 12
330429	40	253.1k	4761	245	5.1%	Ecal noise layer 12, 18
330430	30	244.2k	3708	193.6	5.2%	Ecal noise layer 12, 18
330431	25	178k	3099	179.8	5.8%	Ecal noise layer 12
330432	20	232.8k	2525	155.3	6.2%	Ecal noise layer 12
330433	15	245.2k	1915	135.3	7.1%	Ecal noise layer 2, 12
330452	15	233.7k	1905	138.1	7.2%	Ecal noise layer 2, 6, 12
330454	20	229k	2484	167.2	6.7%	Ecal noise layer 2, 6, 12

15/07/2007
For all the runs this day:
Beam: very low hadron components;
Significant wafer gap effect;

RunNum	Energy	Beam event Num	Main Peak position	Main Peak Width	Sigma/Mean	Comments
330455	25	229.7k	3057	193	6.3%	Ecal noise layer 6, 12
330456	30	225.7k	3652	216	5.9%	Ecal noise layer 12
330461	40	228.4k	4654	266	5.7%	Ecal noise layer 12
330462	50	228.4k	5774	296	5.1%	Ecal noise layer 12
330470	50	228.7k	5806	292.6	5.0%	Slightly noise in layer 19, ecal
330471	40	229k	4701	259	5.5%	
330474	30	228.4k	3580	222.2	6.2%	
330475	25	228.1k	3043	194	6.4%	
330477	20	238k	2476	165.3	6.7%	
330482	15	229.5k	1897	137.2	7.2%	Slightly noise in ecal layer 2, 6
330488	50	183.6k	5721	341.8	6.0%	
330493	40	186k	4666	290.3	6.2%	

330499	30	182.2k	3555	240.8	6.8%	
330501	25	181.3k	3029	202.3	6.7%	
330506	20	181.5k	2469	172.1	7.0%	
330508	15	200k	1889	141.8	7.5%	Ecal Noisy layer 2

16/07/2007-18/07/2007
No electron runs

19/07/2007
Many hadrons in the beam, layer 19 always have very large noise

RunNum	Energy	Beam event Num	Main Peak position	Main Peak Width	Sigma/Mean	Comments
330657	25	228.5k	3125	175.4	5.6%	Noisy layer 19
330658	20	228.5k	2531	155.3	6.1%	Noisy layer 19
330659	18	229k	2268	154	6.8%	Noisy layer 19
330660	15	231k	1912	145.6	7.6%	Noisy layer 19
330663	12	185.4k	1569	127.5	8.1%	Noisy layer 19
330664	10	222.1k	1326	111.1	8.4%	Noisy layer 19
330665	8	23.7k	1076	96.7	9.0%	(665, 668, 669)->one run
330668	8	75.3k	1076	101	9.4%	Noisy layer 19
330669	8	92.9k	1074	100	9.3%	Noisy layer 19

20/07/2007

RunNum	Energy	Beam event Num	Main Peak position	Main Peak Width	Sigma/Mean	Comments
330712	8	67.8k	1074	101.9	9.5%	Noisy layer 19
330713	8	214k	1075	101.8	9.5%	Noisy layer 19
330714	10	158.7k	1318	116.9	8.9%	Noisy layer 19
330716	12	232k	1557	127	8.2%	Ecal noisy layer 2, 19
330721	20	114.7k	2472	168.1	6.8%	Ecal noise layer 10, 19
330722	20	117.6k	2442	176.6	7.2%	Ecal noise layer 10, 19
330732	25	70k	2994	193.3	6.5%	Ecal noise layer 10, 19
330733	25	240k	2996	198	6.6%	Ecal noise layer 10, 19

2007-07-21 05:12

330751	beamData	10x10	-10GeV	e-	520	air	air	2.6126	-3,+3	250k Events

DAQ rate: 96 Hz

2007-07-21 05:58

330752	beamData	10x10	-12GeV	e-	524	air	air	2.1224	-3,+3	320k Events

DAQ rate: 96 Hz

2007-07-21 06:59 Manqi, Petr, Nicola

330753	beamData	10x10	-15GeV	e-	521	air	air	1.3613	-3,+3	270k Events

DAQ rate: 103 Hz

2007-07-21 07:49 Manqi, Petr,

Nicola

330754	beamData	10x10	-18GeV	e-	522	air	air	0.9421	-3,+3	96k Events

DAQ rate: 90 Hz

2007-07-21 08:05 Morin, Lutz, Kieffer

330755	beamData	10x10	-18GeV	e-	522	air	air	0.9421	-3,+3	185k Events

DAQ rate: 90 Hz

2007-07-21 08:54 Morin, Lutz, Kieffer

330757	ahcPmNoise	-e 20000	

2007-07-21 08:57 Morin, Lutz, Kieffer

330758	beamData	10x10	-10GeV	e-	520	air	air	0.76	-3,+3	20K Events

trigger rate 9.8K
I have load the wrong file, so it is a 10 GeV run with wrong Cherenkov presure (0.76 instead of 2.10 for 10 GeV)

2007-07-21 09:04 Morin, Lutz, Kieffer

330759	beamData	10x10	-10GeV	e-	520	air	air	0.76	-3,+3	70K Events

trigger rate 9.8K
I have load the wrong file, so it is a 10 GeV run with wrong Cherenkov presure (0.76 instead of 2.10 for 10 GeV)

⚠ 2007-07-21 09:06 Beni **high current**

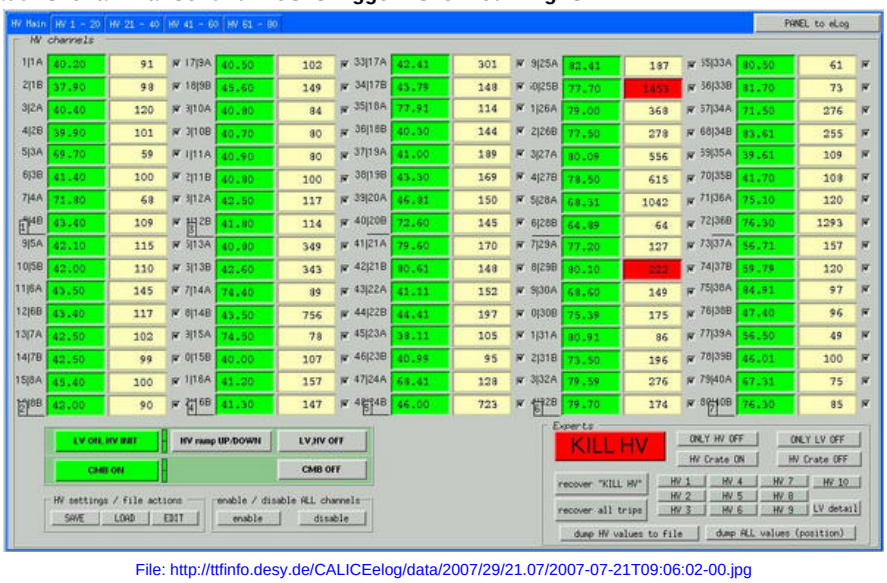
The current HV channel 50 (layer 25B) raised for **1.1 mA** since the 2007-07-19 22:43. From the current history this raise happen more than 3 hours ago.

Nobody noticed it, as the HV panel did not start to blink red.

Additinally there is a small rise in channel 58.

I checked the noise signal of the module with the big current increase. Except that there are two dead channels I cannot see any problems. We continue data taking without changes. I will raise the current limit for HV channel 50 & 58.

EDIT:
While editing the file with the current limits I realized that the limit of HV channel 50 was raised between my ELOG entry from 19th and now. I cannot find any documentation of this and most probably the person that did this change also forgot to reopen the HV panel. Therfore, the additional raise did not trigger the red light.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/21.07/2007-07-21T09:06:02-00.jpg

2007-07-21 09:30 Morin, Lutz, Kieffer

330760	beamData	10x10	-20GeV	e-	523	air	air	0.76	-3,+3	position tuning run

trigger rate 8K

2007-07-21 09:37 Morin, Lutz, Kieffer

330761	beamData	10x10	-20GeV	e-	523	air	air	0.76	-3,+3	

run stopped after 400 k events to account for the high pion contamination ~(3:1) w.r.t electrons. estimated 100 k ev good electrons

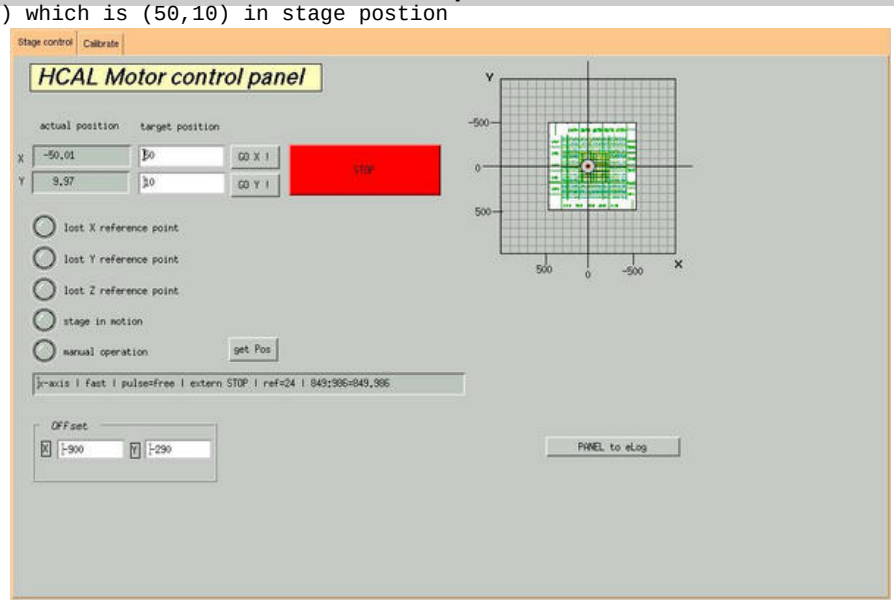
2007-07-21 10:53 Morin, Lutz, Kieffer

330762	beamData	10x10	-25GeV	e-	526	air	air	0.5	-3,+3	

6300 particles per spill
DAQ rate 85 Hz

2007-07-21 12:22 **new position**

moved to (+3,+3) which is (50,10) in stage postion



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/21.07/2007-07-21T12:22:02-00.jpg

2007-07-21 12:33 Beni **VETO ampitude readout**

LATE ENTRY

On 20.07.2007 I tried to debug the VETO amplitude readout.

MAPPING CHANGE
For the debugging the VETO was moved to slot 12 FE 4 chip 0 chan 18

Following tasks were performed:
- added delay (63ns)
- new holdscan & holdvalue (6 ticks)
- increase of PMT high voltage
- exchange of polarity transformer

Now the signal looks better. We can distinguish a pedestal from the MIP peak, but still the separation
is poor. Further work seems to be neccessary.

2007-07-21 12:50 Beni

330763	ahcCmNoise	-e 20000
330764	ahcPmNoise	-e 20000
330765	ahcCmLedVcalibScan	
330766	ahcPmLedVcalibScan	
330767	ahcGain	

2007-07-21 12:57 Morin, Beni,

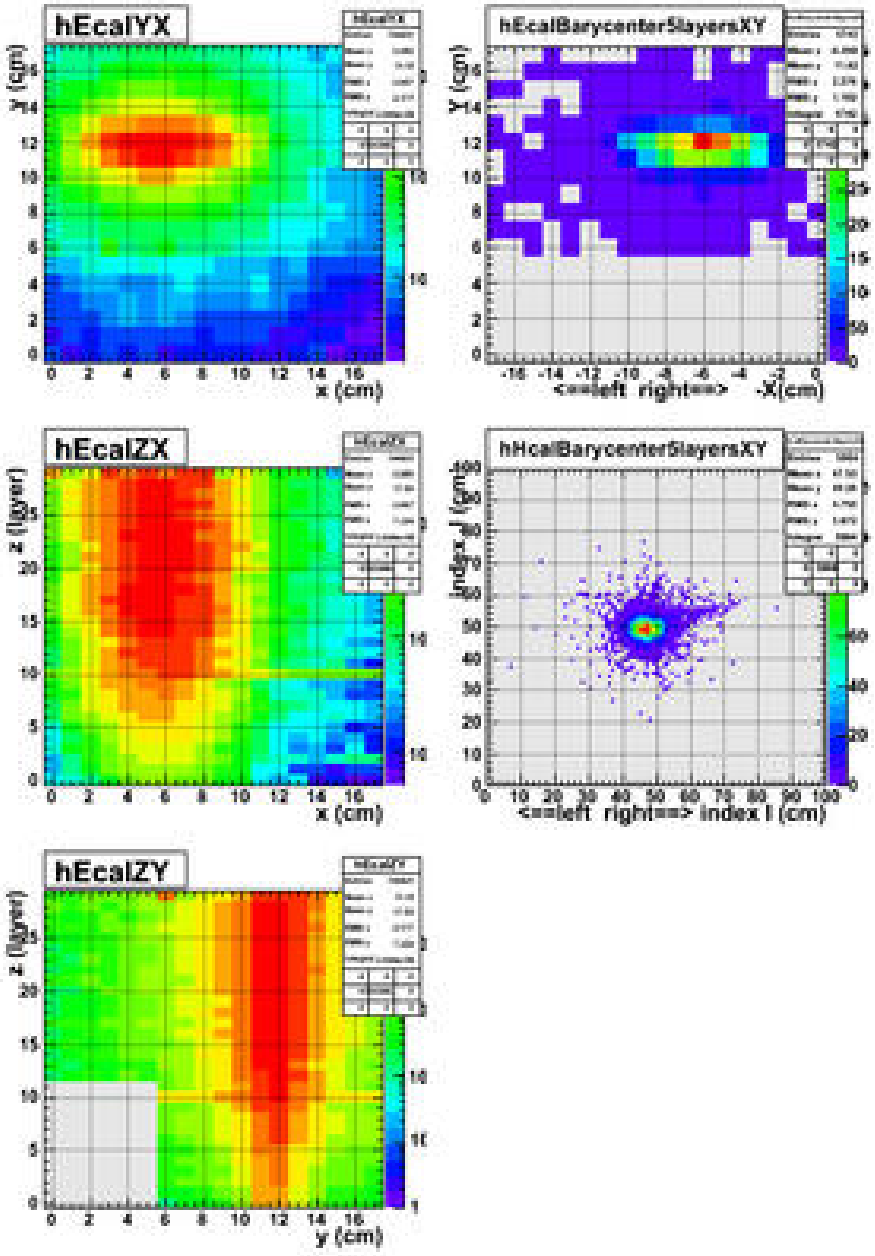
Kieffer

330768	beamData	10x10	-25GeV	pi-	526	4mm Pb	air	0.48	+3,+3	

position checked, looks ok
Cherenkov pressure for 35 GeV optimised to 0.48 bar instead 0.5 bar

2007-07-21 13:03 **position check**

position in ECAL (+3;+3)



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/21.07/2007-07-21T13:03:02-00.gif

2007-07-21 13:52

330769	ahcGain

with 6 CMB recovered after manual re-init

6 CMB were found off since about run 330732
please keep monitoring the online plot for LED amplitude
if more than 5 CMB are below 2000 ADC counts click on manual re-init on the CMB slowcontrol pannel

2007-07-21 14:23 Morin, Beni, Kieffer

330770	beamData	10x10	-20GeV	pi-	523	4mm	air	0.76	+3,+3	cherenkov

						Pb				pressure changing

stopped with 38kev
change TRIM5 from -3.3 to -1 to better center beam in y direction

2007-07-21 14:30 Morin, Beni, Kieffer

330771	beamData	10x10	-20GeV	pi-	523	4mm Pb	air	0.76	+3,+3	250k good, last 15k beam settings in transition

cherenkov press. stable
better centered
6.8k particles per spill
DAQ rate 84 Hz

2007-07-21 15:30 Morin, Beni, Kieffer **18 GeV pions, cherencov in transition**

330772	beamData	10x10	-18GeV	pi-	522	4mm Pb	air	N/A	+3,+3	cherenkov still in transition

trigger 3.8k
DAQ 80 Hz

2007-07-21 15:39 Morin, Beni, Kieffer **18 GeV pions**

330773	beamData	10x10	-18GeV	pi-	522	4mm Pb	air	0.93	+3,+3	255kEvents

trigger 3.8k
DAQ 80 Hz

2007-07-21 16:28 Oliver/Allister/Hengne **pion run**

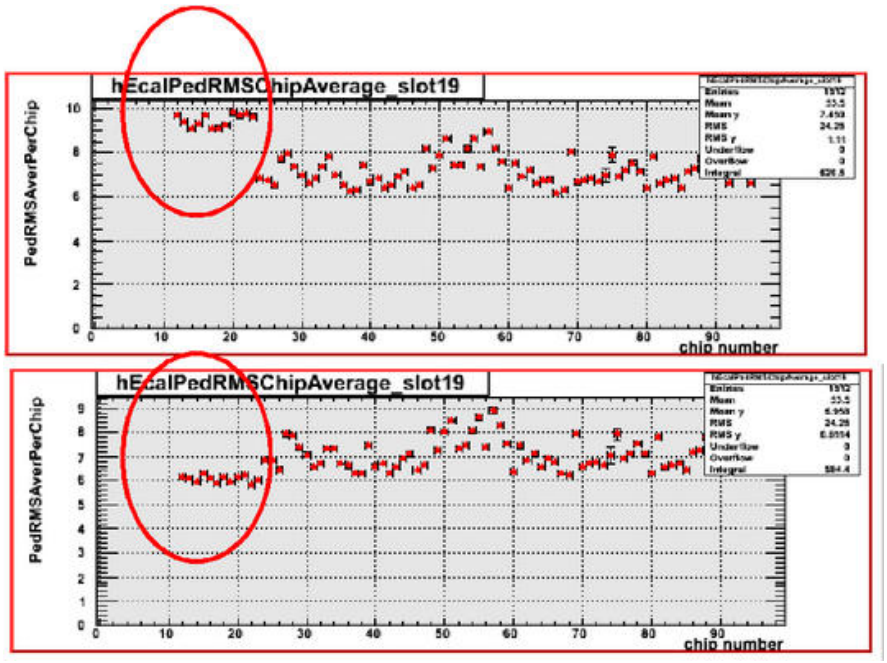
330774	beamData	10x10	-15GeV	pi-	521	4mm Pb	air	1.33	+3,+3	166kEvents

trigger rate: 2.9 kpps
DAQ rate: 81 Hz

no beam for 15 min, run stopped after 166kEvents

2007-07-21 17:08 Oliver/Allister/Hengne **noisy ECAL slot 19**

Some chip in slot 19 seem to be very noisy early in a run (here run 330774) but then gradually reduces
to the same level as the other chips. The circled part in the upper graph is actually much higher in the earlier part of the run.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/21.07/2007-07-21T17:08:00-00.png

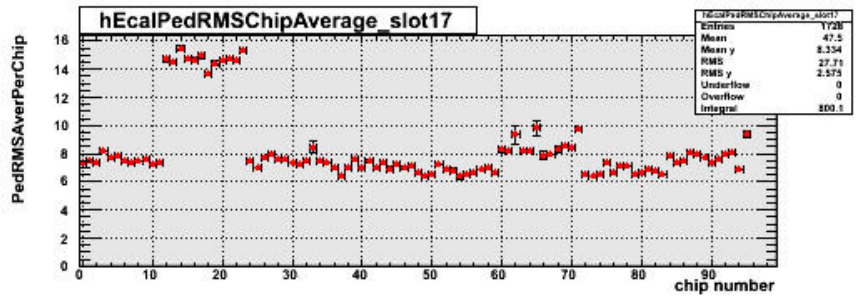
2007-07-21 17:15 Oliver/Allister/Hen **pion run**

330775	beamData	10x10	-15GeV	pi-	521	4mm Pb	air	1.34	+3,+3	106kEvents

continuation of previous run to add more events after the beam resumed.

2007-07-21 17:27 Oliver/Allister/Hen **noisy ECAL slot 17**

Same as the earlier observation for slot 19. Some chips start twice as noisy as others then gradually
goes down later in the run.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/21.07/2007-07-21T17:27:28-00.png

2007-07-21 17:32 Oliver/Allister/Hen **pion run**

330776	beamData	10x10	-12GeV	pi-	524	4mm Pb	air	2.085	+3,+3	256kEvents

10x10 trigger rate: 2.71kpps
DAQ rate:

2007-07-21 18:28 Oliver/Allister/Hen **pion run**

330777	beamData	10x10	-10GeV	pi-	520	4mm Pb	air	2.58	+3,+3	250kEvents

10x10 trigger rate: 6kpps
DAQ rate: 90 Hz

2007-07-21 18:38 Roman **Cogri Scripts restarted -> Copy to desy**

Dear Colleagues,

I have restarted the cogri scripts. The files will be copied to desy again.

Replication cc lyon -> desy for binaries of runs 330725 - 330775 also
started.

Control of scripts handed back to shift crew.

Cheers,

Roman

2007-07-21 19:24 Oliver/Allister/Hen **pion run**

330778	beamData	10x10	-8GeV	pi-	525	4mm Pb	air	3.0	+3,+3	cherenkov pressure changing

stopped with 30000 ev when cherenkov stable
ratio pi/e = 7/2
insert 8mm Pb absorber to try and improve it

2007-07-21 19:28 Oliver/Allister/Hen **pion run**

330779	beamData	10x10	-8GeV	pi-	525	8mm Pb	air	3.0	+3,+3	251kEvts

10x10 trigger rate: 1.0kpps
DAQ rate: 55Hz

pi/e = 20/1.3

2007-07-21 19:57 Roman **Run 330394**

Hi there,

I am bit puzzled.

It seems that we have never taken a run 330394.

It doesn't appear neither in the logout of the cogri scripts
nor in the checks performed before deleting files.

In the elog I have found that there were DAQ Problems for runs 330393 and 330394 (!)
but somehow the latter was never taken.

Maybe it's just for the record.

Roman

2007-07-21 20:48 Oliver/Allister/Hen **calibration runs**

330780	ahcGain

2007-07-21 20:58 Oliver/Allister/Hen **energy resolutions pion runs**

21/07/2007 Pion-Runs

RunNum	Energy (GeV)	energy mean (mip)	width of mean (mip)	Sigma/Mean (%)
330775	-15	349.1	58.8	16.8
330777	-10	226.2	45.8	20.2
330779	-8	177.1	40.8	23.0

2007-07-21 20:59 Oliver/Allister/Hen **change of beam setting**

Moved absorber to air, in preparation for electron runs.

Reduced collimators to decrease 10x10 trigger rate
New collimator settings:
COLL1 = COLL5 = COLL6 = COLL10 = COLL11 = +/-5 (old value was +/-15)

2007-07-21 21:14 Oliver/Allister/Hen **electron run**

330781	beamData	10x10	-8GeV	e-	525	air	air	2.98	+3,+3	250kEvents

10x10 trigger rate: 4.96kpps
DAQ rate:88 Hz

2007-07-21 21:43 Oliver/Allister/Hen **Mistakes in elog entries!**

There seems to be some mis-assignment of target and absorber for some runs. For example, runs
330488-330508
(supposedly electron runs) it is written in the elog that a "4mm Pb" absorber
was used and target is "air". The corresponding logbook entries seem to be
correct though, with target as "6mm Pb" and absorber is "air". The
analyses of the data seems to agree that these are indeed electron runs as well.

Maybe this means that we should reduce the use of "copy and paste" and be more careful ;-)

We suggest the shifters for these runs to re-check and correct the e-log entries for the above-mentioned runs.

2007-07-21 22:04 Oliver/Allister/Hengne

330782	beamData	10x10	-10GeV	e-	520	air	air	2.588	+3,+3	257kEvents

10x10 trigger rate: 5.5 kpps
DAQ rate: 86 Hz
Collimators reduced:
COLL01 = +/- 5
COLL02 = +/- 2
COLL03 = +/- 2
COLL05 = +/- 5
COLL06 = +/- 10
COLL08 = +/- 2
COLL10 = +/- 5
COLL11 = +/- 10

2007-07-21 23:09 Oliver/Allister/Hengne **electron run**

330783	beamData	10x10	-12GeV	e-	524	air	air	2.11	+3,+3	262kEvents

10x10 trigger rate: 3.16 kpps
DAQ rate: 86 Hz

Collimators reduced:
COLL01 = +/- 3
COLL02 = +/- 6
COLL03 = +/- 3
COLL05 = +/- 3
COLL06 = +/- 3
COLL08 = +/- 6
COLL10 = +/- 4
COLL11 = +/- 4

2007-07-21 23:26 Oliver/Allister/Hengne **mistakes found in elog**

We note that some entries in the elog have mistake in "absorber" and "target".

e.g.

330508	beamData	10x10	-15GeV	e-	536	4mm Pb	air	1.34	+3,+3	200k events	

should be

330508	beamData	10x10	-15GeV	e-	536	air	6mm Pb	1.34	+3,+3	200k events	

since, "|4mmPb absorber | air target|" is the pi- setup, for e-, it should be "|air absorber|6mmPb target|".

The runs with this error are from 330478 - 330508, taking on 15.07.2007.

We checked that it is only a mistake in the elog, the paperbased logbook has no problem, and also no problem of the data file.

Please be careful of this mistake.

2007-07-21 23:58 Oliver/Allister/Hengne **energy resolutions electron runs**

Electron-Runs

RunNum	Energy (GeV)	energy mean (mip)	width of mean (mip)	Sigma/Mean (%)
330783	-12	1548	129.5	8.36
330782	-10	1313	117.1	8.92
330781	-8	1073	105.3	9.81

2007-07-22 01:00 Nicola, Riccardo, Robert **Fit result of ECAL energy-per-event spectrum**

330784	15GeV e-	Mean = 1890	sigma = 154
330785	18GeV e-	Mean = 2270	sigma = 190
330786	20GeV e-	Mean = 2354	sigma = 228
330787	25GeV e-	Mean = 2894	sigma = 248

2007-07-22 08:24 Morin, Brient, **25 GeV pions**

Lutz

330796	beamData	10x10	-25GeV	pi-	526	4mm Pb	air	0.48	+6,0	250k

position checked, is ok
trigger rate 3.9k
DAQ rate 75 Hz

2007-07-22 10:27 Morin, Brient, Lutz

330799	beamData	10x10	-18GeV	pi-	522	8mm Pb	air	0.94	+6,0	25K events

absorber change to 8mm Pb

2007-07-22 10:37 Morin, Brient, Lutz **pion run 18 GeV**

330800	beamData	10x10	-18GeV	pi-	522	4mm Pb	Air	0.94	+6, 0	col09 at -10cm, 22K events

2007-07-22 10:42 Morin, Brient, Lutz

330801	beamData	10x10	-18GeV	pi-	522	4mm Pb	Air	0.80	+6,0	col09 back to - 35. cm, 200K event

⚠ 2007-07-22 10:53 Morin, Brient, Lutz **cherenkov pressure was to high**

We looked into the particle ID plots for the last run and realized that we see a lot of pions tagged as electrons. After some tests we found that the calculated threshold value of 0.94 bar is too high for 18 GeV. We lowered it to 0.8 bar and we see a much better electron pion separation. We will keep an eye on this and make a new pressure table.

energy	measured pressure	diff to theory		electron detection eff.
[GeV]	[bar]	[bar]	[%]	
25	0.42	-0.06	-12.5%	83%
20	0.69	-0.07		96%
18	0.80	-0.14	-14%	
15	1.00			
12	1.88	-0.22	-10%	
10	2.30	-0.30	-12%	
8	2.54	-0.46	-15%	

2007-07-22 11:35 Morin, Brient, Lutz

330802	beamData	10x10	-15GeV	pi-	521	4mm Pb	Air	0.99	+6,0	280K event

COLL10 positive side went to 4.5mm during run, could be reset
trigger rate 2.8K
daq rate 77 Hz

2007-07-22 12:41 Morin, Brient, Lutz

330803	beamData	10x10	-12GeV	pi-	524	4mm Pb	Air	2.08	+6,0	14 K

The Cherenkov threshold tunning now goimg to 1.88 instead of 2.08

2007-07-22 12:50 Morin, Brient, Lutz

330804	beamData	10x10	-12GeV	pi-	524	4mm Pb	Air	1.88	+6,0	99K events

Noise inside hcal at slot 17 fe 0 module16

2007-07-22 13:10 Morin, Brient,

				Lutz						
330806	beamData	10x10	-12GeV	pi-	524	4mm Pb	Air	1.88	+6,0	150K events

2007-07-22 13:46				Brient,Morin,Lutz	**beamData**					
330807	beamData	10x10	-10GeV	pi-	520	4mm Pb	Air	2.3	+6,0	65 Kevents

50/50 e/pi change to beam absorber 8 mm lead

2007-07-22 14:00				Brient,Morin,Lutz						
330808	beamData	10x10	-10GeV	pi-	520	8mm Pb	Air	2.3	+6,0	251K events

2007-07-22 15:21				Brient,Morin,Lutz	**beamData**					
330809	beamData	10x10	-8GeV	pi-	525	8mm Pb	Air	2.7	+6,0	253k Events

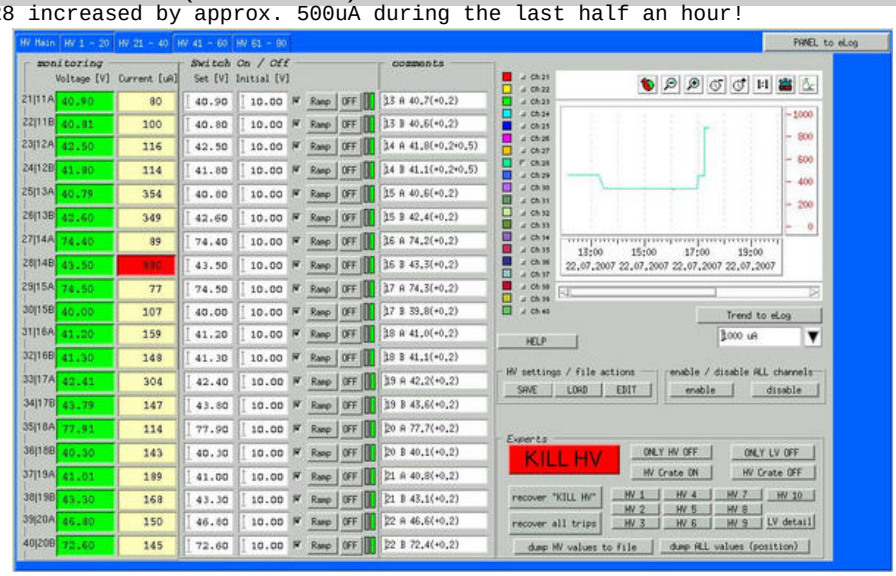
trigger rate 800
DAQ rate 44 Hz

2007-07-22 16:50	Hengne/Oliver/Manqi		
330810	ahcGain		
330811		junk	
330812	ahcCmNoise	20k Events	
330813	ahcPmNoise	20k Events	
330815	ahcCmLedVcalibScan		
330817	ahcPmVcalivScan		
330819	ahcGain		

330814		test run option -e 10000 -v 197 random Trigger
330816		test run option -e 10000 -v 197 random Trigger
330818		test run option -e 10000 -v 197 random Trigger

2007-07-22 17:16 caliceon@calicehcal02.cern.ch **high current in Ch 28**
(CALICE user)

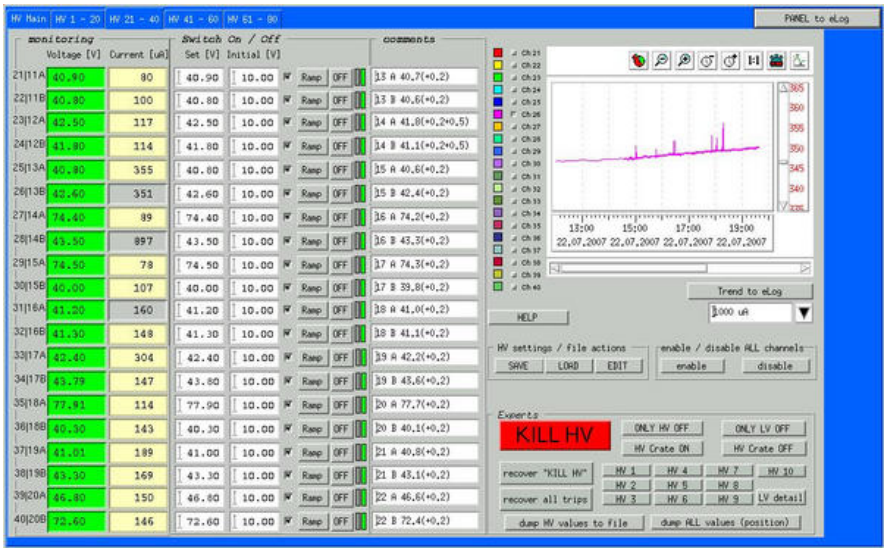
current in Ch 28 increased by approx. 500uA during the last half an hour!



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/22.07/2007-07-22T17:16:01-00.jpg

2007-07-22 19:52 caliceon@calicehcal02.cern.ch **increasing current in ch 26**
(CALICE user)

The current of channel 26 has increased during the last two hours by approx. 3uA. It is now beyond limit.



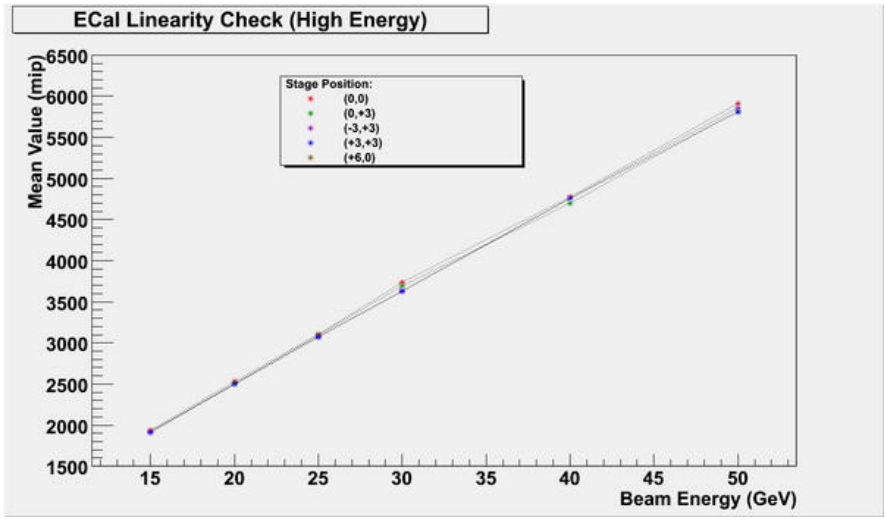
File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/22.07/2007-07-22T19:52:02-00.jpg

2007-07-22 21:25 Hengne/Allister **ECal Linearity Check (High Energy)**

- Seems to be alright
- for different stage position (0,0); (0,+3); (-3,+3); (+3,+3); (+6,0)
- data chosen of stage position (0,0) are Run # 330428 to 330433 , taken on 14. 07. 2007 night shift

- no error considered since they are neglectable
- thanks to Allister for the fits

Hengne

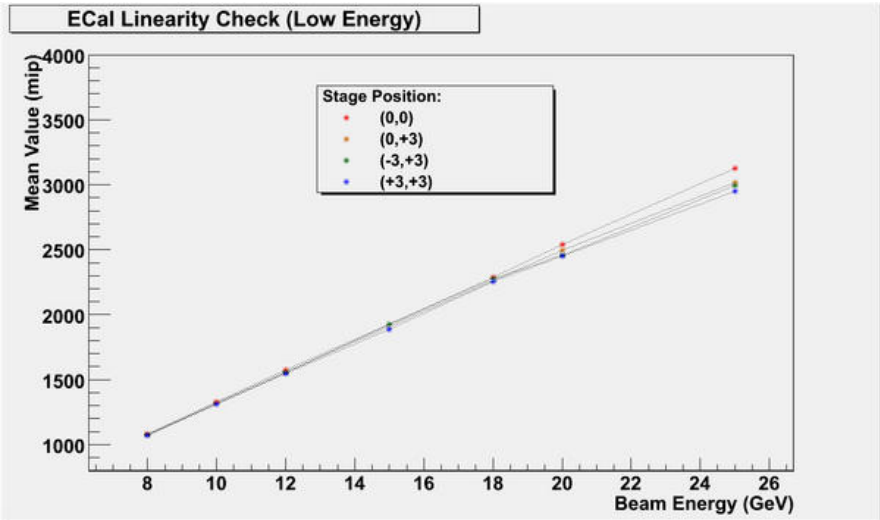


File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/22.07/2007-07-22T22:00:25-00.png

2007-07-22 22:16 Hengne/Allister **ECal Linearity Check (Low Energy)**

- Seems to be alright, splitted a bit when energy lagger than 18 GeV
- for different stage position (0,0); (0,+3); (-3,+3); (+3,+3)
- Since Run330717, Run330719, Run330720, which correspond to energy 15GeV and 18GeV at stage position
 (0, +3), were not online Analysed, these two points on the plot of stage position (0,0)
 are left blank.
- no error considered since they are neglectable
- thanks to Allister for the fits

Hengne



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/22.07/2007-07-22T22:16:10-04.png

2007-07-22 22:32 Hengne/Oliver/Mar **electron run**

- load beam file 522, set cherenkov pressure to 0.79 bar,
- close collinators to:
  COLL01=COLL05=COLL06=COLL10=COLL11=+/-5 mm
- trigger rate reduced to : 7.8kpps

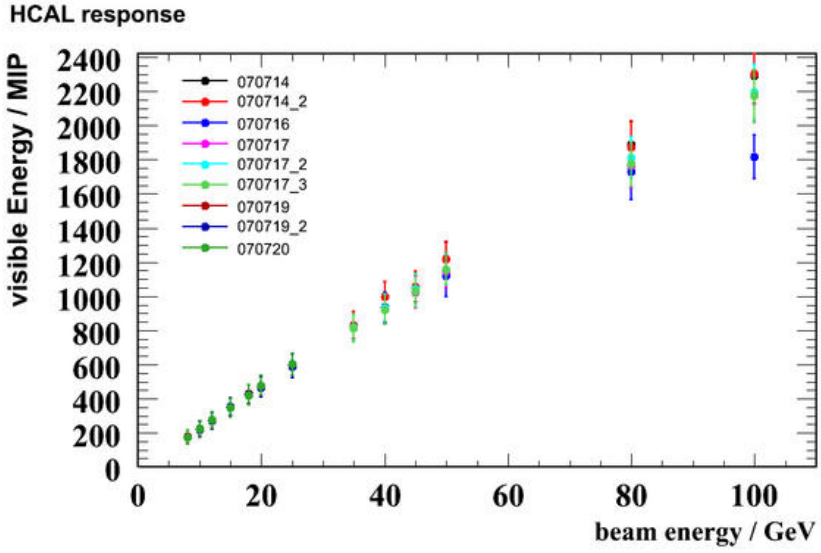
330823	beamData	10x10	-18GeV	e-	522	Air	Air	0.79	+6,0	282KEvents

Trigger rate 7.8 kpps
DAQ rate: 90Hz

2007-07-22 22:55 Oliver **HCAL Response**

The plot shows the response of the HCAL in MIPs for pions beams of different energies. The HCAL response is given by the mean of a gaussian fit of hEcalEnergy spectrum. The error bars indicate the standard deviation of this fit.

Compared to the plot form July 20th 2007 a few more data samples are added.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/20.07/2007-07-22T22:55:27-00.png

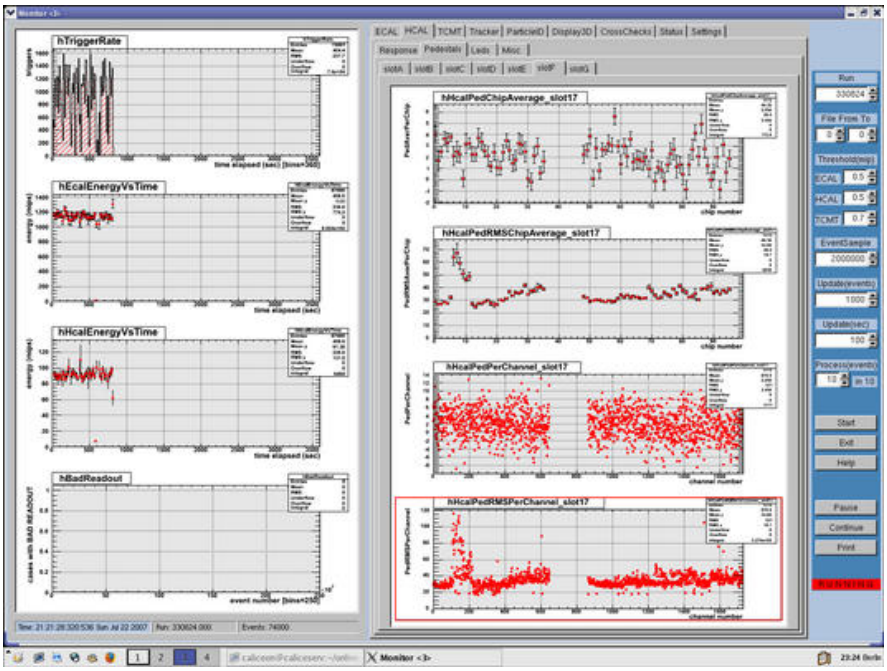
2007-07-22 23:08 Hengne/Oliver/Mar **electron run**

330824	beamData	10x10	-15GeV	e-	521	Air	Air	0.95	+6,0	256KEvents

Trigger rate 7.43 kpps
DAQ rate: 90Hz

2007-07-22 23:28 Oliver, Hengne, Manqi **Noisy layer of the Hcal**

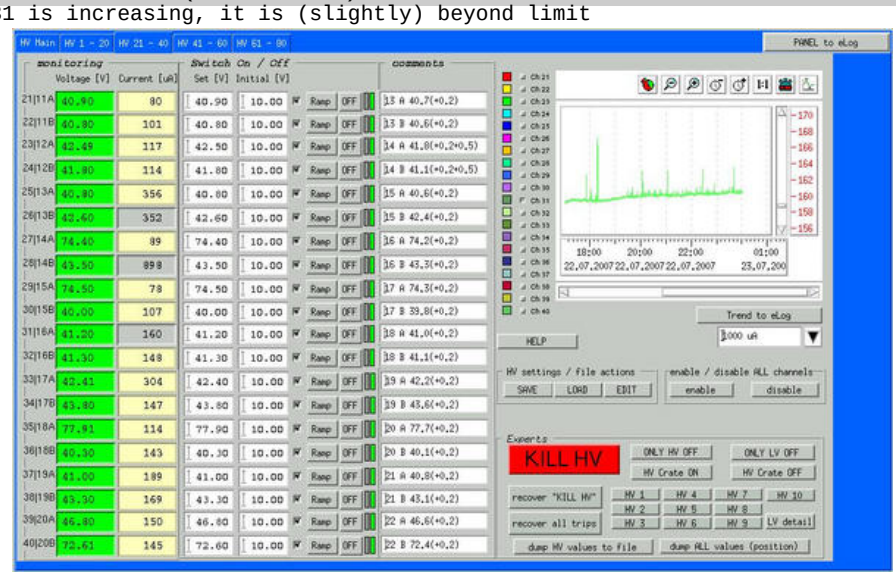
Hcal layer correponding to slot 17 is noisy. observed in Run330824 and 330823. Might be layer 14



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/22.07/2007-07-22T23:28:23-01.png

2007-07-22 23:50 caliceon@calicehcalcon02.in.ch (CALICE user) **current in ch 31 is increasing**

current in ch 31 is increasing, it is (slightly) beyond limit



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/22.07/2007-07-22T23:50:03-00.jpg

2007-07-22 23:53 **raised current limits**

for following channels the current limit was raised: 26, 28, 31 (28 is back with high current)



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/22.07/2007-07-22T23:53:02-00.jpg

2007-07-17 07:32 **current increased in HCAL HV ch 6**

current in HCAL HV ch 6 increased from 99uA to 101uA at 6:20



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/17.07/2007-07-17T07:32:02-00.jpg

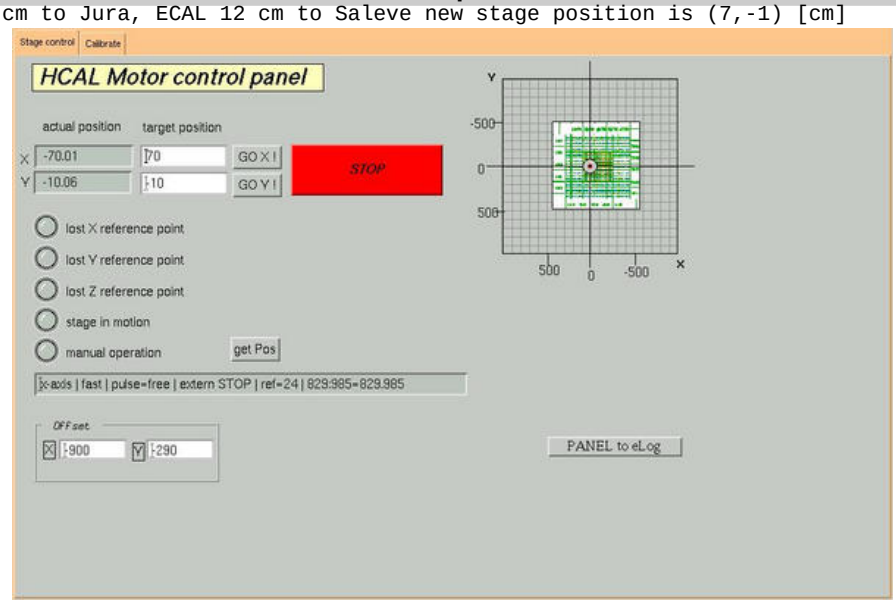
2007-07-17 08:14 Allister, Imad, Beni **new shift**

2007-07-17 08:27 Allister, Imad, Beni

330584	ahcGain
330585	ahcPmLedVcalibScan
330586	ahcCmLedVcalibScan
330587	ahcPmNoise
330588	ahcCmNoise

2007-07-17 10:09 **new position**

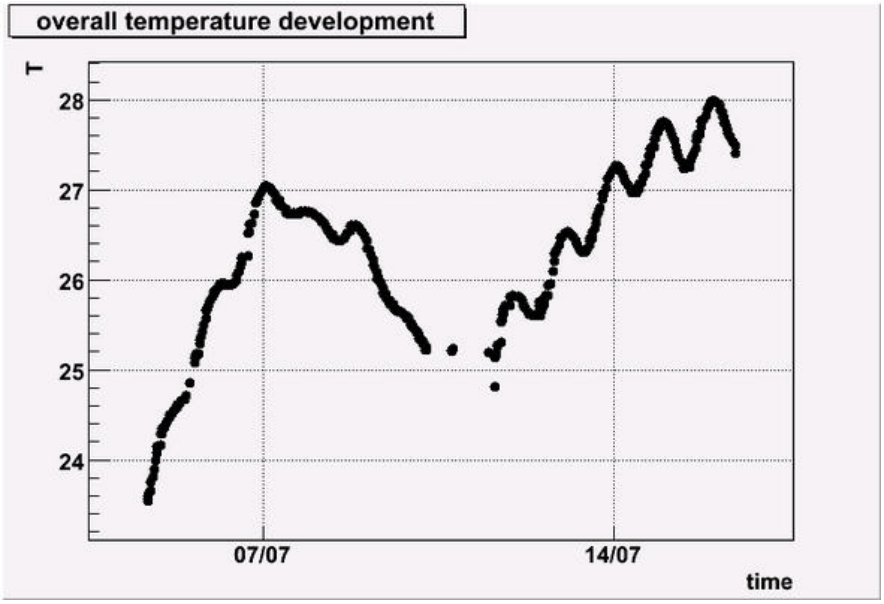
moved stage 12 cm to Jura, ECAL 12 cm to Saleve new stage position is (7,-1) [cm]



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/17.07/2007-07-17T10:09:01-00.jpg

2007-07-17 12:32 Beni **temperature development**

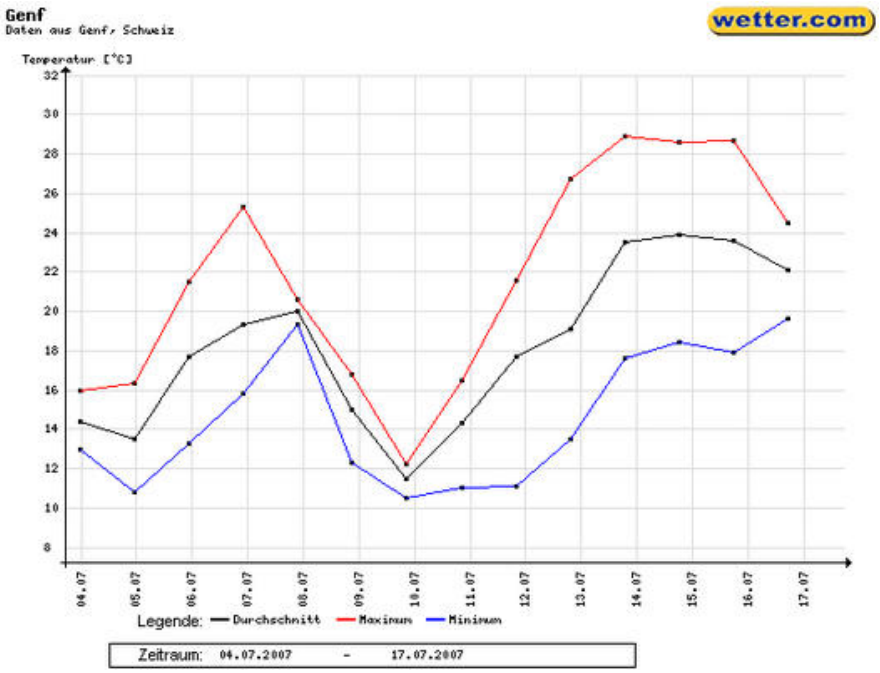
Avergae temperature of the HCAL from the first record in each run since 4th of July



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/17.07/2007-07-17T12:32:18-00.gif

2007-07-17 12:36 Beni **outside temperature**

For reference the Geneva temperature for the same time periode.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/17.07/2007-07-17T12:36:08-00.png

2007-07-17 13:16 Allister, Imad, Beni **Guassian Fit for pion runs 330558-330582**

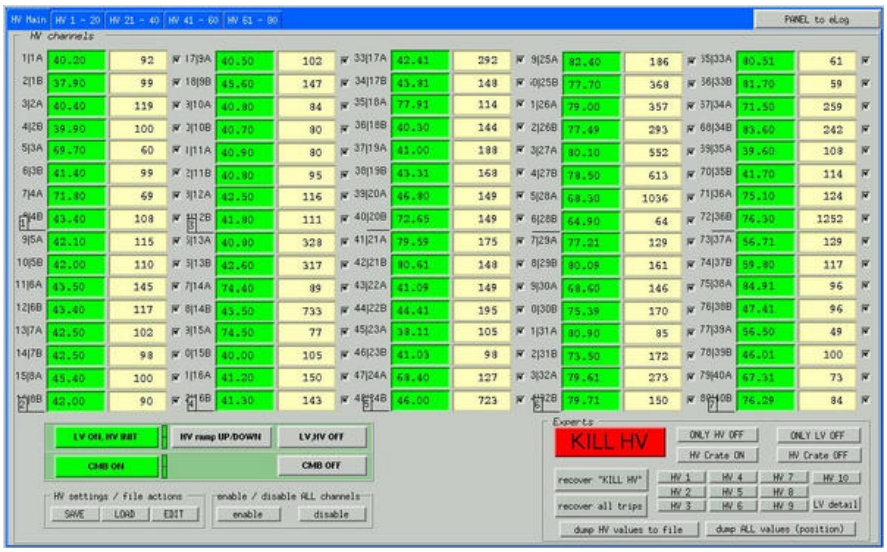
HCAL energy gaussian fits for pion runs where the ECAL is centered and the HCAL is 6mm off towards Saleve.

Run No.	E(GeV)	Mean(mips)	Sigma(mips)	Sigma/Mean(%)
330582	-100	2222	149.7	6.74
330579	-80	1812	123.7	6.83
330572	-50	1159	90.62	7.82
330571	-45	1044	85.87	8.23
330570	-40	934.4	79.76	8.54
330569	-35	820.9	77.71	9.47
330561	-35	826.2	75.53	9.14
330560	-40	933.2	81.65	8.75
330559	-45	1041	87.48	8.40

330558	-50	1159	91.85	7.92

2007-07-17 13:33 — HCAL currents

for reference



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/17.07/2007-07-17T13:33:02-00.jpg

⚠ 2007-07-17 13:59 — Beni — one CMB poer supply failed

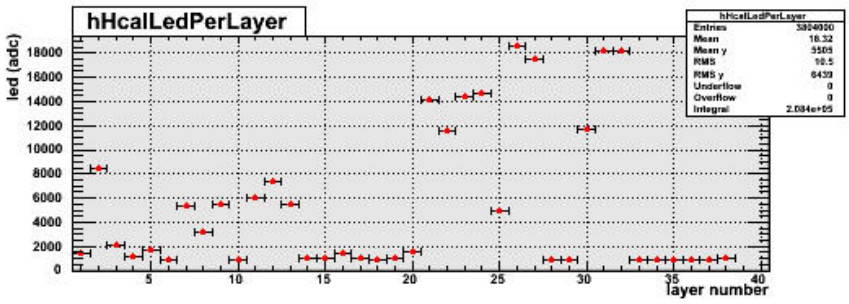
During CMB checks I discovered that one of the two CMB power supplies had failed. From the slowcontrol
history it looks like this happened already 13th July between 14:15 and 14:30.

The CMBs were supllied with 7 V instead of 14 V. Nevertheless we could see LED monitoring data in the last runs.

I reset the CMB power suplly. We now have 14 V again.

2007-07-17 14:41 — Allister, Imad, Beni — hHcalLedPerLayer

for CMB checking reference, run 330596



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/17.07/2007-07-17T14:41:22-00.png

2007-07-17 15:20 — Allister, Imad, Beni — calibration runs

330597	ahcPmLedVcalibScan

2007-07-17 15:46 — Allister, Imad, Beni — calibration runs

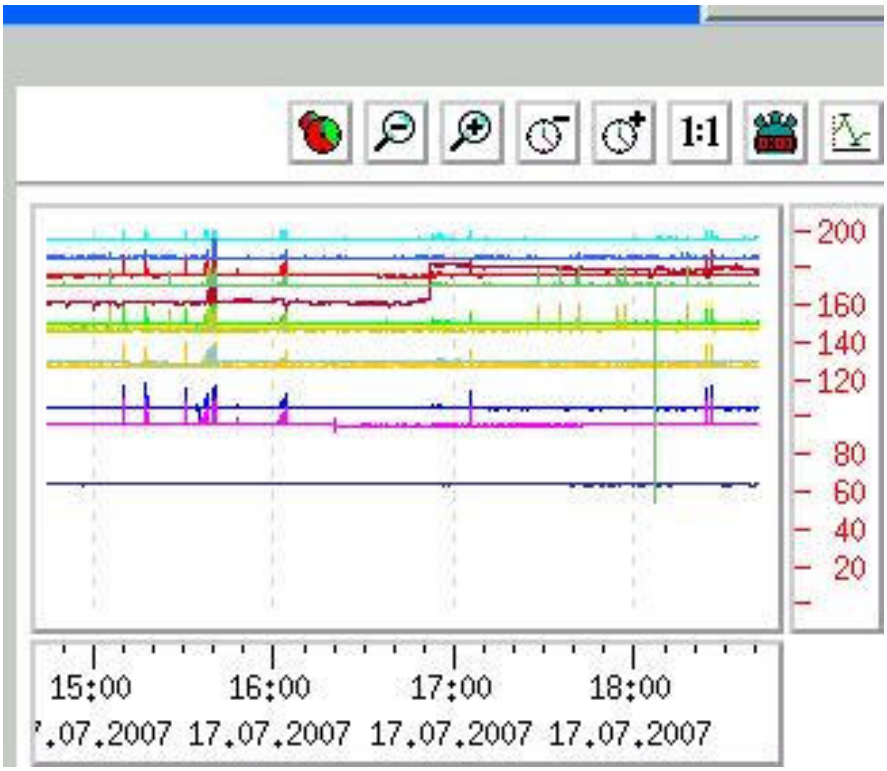
330599	ahcCmLedVcalibScan

2007-07-17 16:59 — Valeria, Manqi, Nanda — LED check

For run 330600 we don't see LED light in layers:
1,3,4,5,6,10,14,15,16,17,18,19,20,28,29,33,34,35,36,37,38
just as in the previous runs.

2007-07-17 18:31 caliceon@calicehcal02.desy.de **current jump**
(CALICE user)

around 16.45 the current in HV channel 58 = module 2b was rising from 60 to 80.
HV channel 57 = module 2a remained stable.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/17.07/2007-07-17T18:31:02-00.jpg

2007-07-17 18:47 Nanda/Manqi/Valeria **LED check**

adjusted vcalib settings in AHC.cfg, performed DAQ shutDown, DAQ startUp, CMB manual re-init &
CMB check,
since some channels had too much light, and 5 still did not show any signal:

layer	before	after
35	40000	42000
29	33000	36000
28	33000	36000
18	35000	38000
10	46000	48000
8	44000	45000

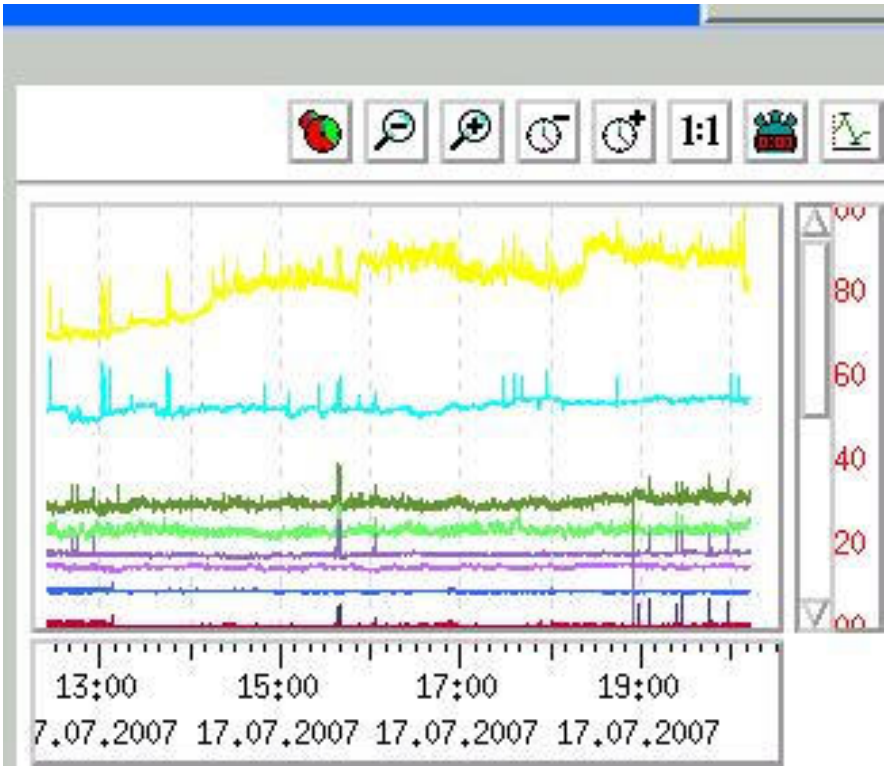
still no signal on online moitoring plots (Run330604)
-> seem not to work at all

33	33000	31000
36	33000	31000
37	33000	31000
20	33000	31000
19	33000	31000

now below 16.000 ADC counts, before above 20.000 ADC counts

2007-07-17 20:02 caliceon@calicehcal02.desy.de **rising current II.**
(CALICE user)

the current in HV channel 62 = module 36B is constantly rising during the last 8 hours
(from ~60 to ~85)
module 36A was stable



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/17.07/2007-07-17T20:02:02-00.jpg

2007-07-18 00:03 Nanda/Manqi/Valeria/Hakan/Nicola/George **muon run**

330614	beamData	100x100	-80GeV	mu	555	air	air	N/A	0,0	split beam file in 250 kevt
330615	beamData	100x100	-80GeV	mu	555	air	air	N/A	0,0	split beam file in 250 kevt
330616	beamData	100x100	-80GeV	mu	555	air	air	N/A	0,0	split beam file in 250 kevt
330617	beamData	100x100	-80GeV	mu	555	air	air	N/A	0,0	15k events

2007-07-18 02:09 Hakan/Nicola/George **ahcGain**

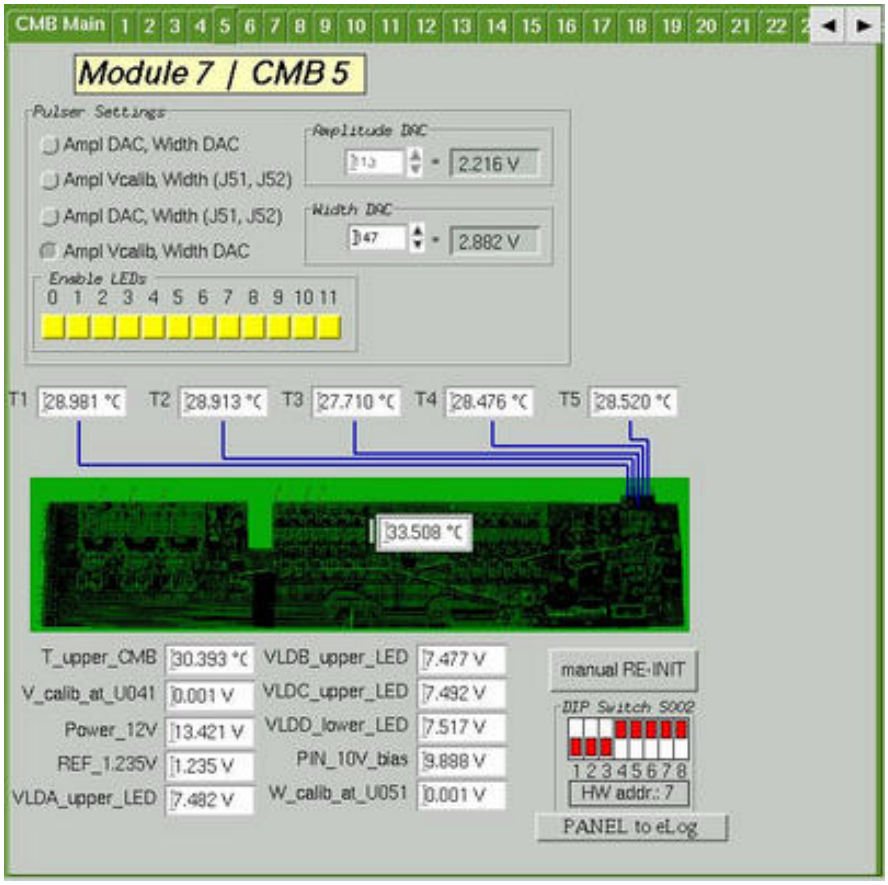
330618	ahcGain

2007-07-18 02:35 Hakan/Nicola/George **muon run**

330619	beamData	100x100	-80GeV	mu	555	air	air	N/A	0,0	split beam file in 250 kevt
330620	beamData	100x100	-80GeV	mu	555	air	air	N/A	0,0	split beam file in 250 kevt
330621	beamData	100x100	-80GeV	mu	555	air	air	N/A	0,0	split beam file in 250 kevt

2007-07-18 03:11 **how to check the CMB power supply**

The colors of the CMB LV button may be misleading, therfore the CMB power has to be checked in the CMB panel. Go to the slowcontrol, open the CMB menue, switch to the detailed view of a random CMB and check if the Power_12V is larger than 12V. If the voltage is lower, especially if it is between 6 to 7 V please call the HCAL expert (16 5554)



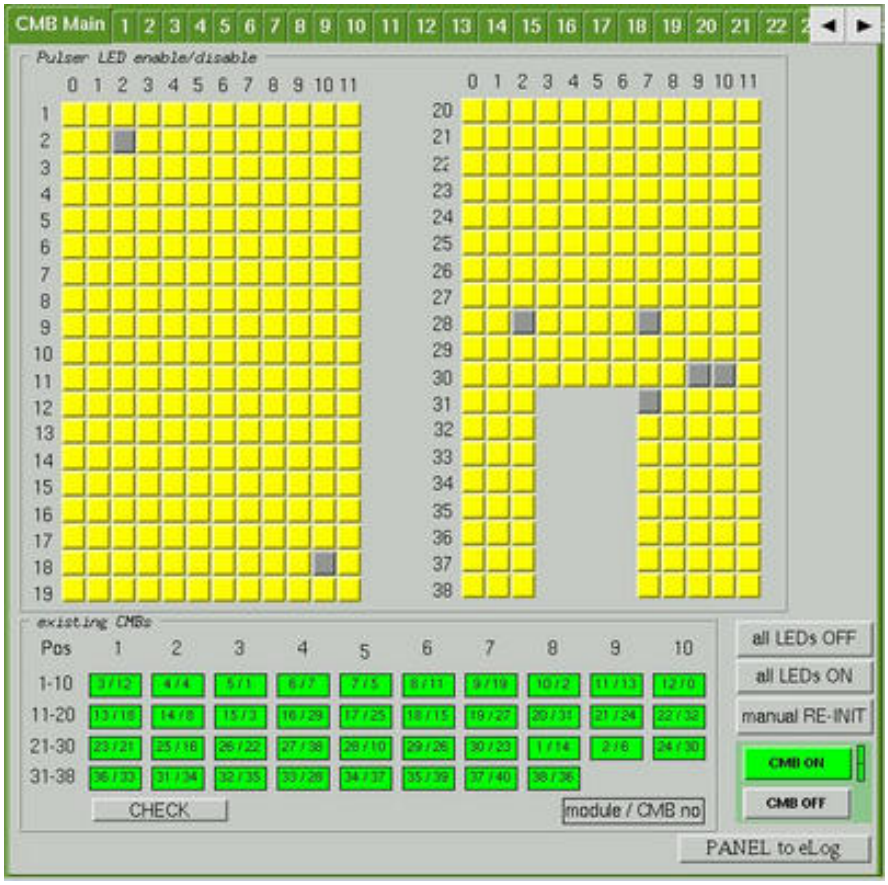
File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/18.07/2007-07-18T03:11:02-00.jpg

2007-07-18 03:17 caliceon@calicehcal.shef.ac.uk (CALICE user) **additional shift duties**

Due to the problems with the CMBs following tasks should be performed in addition to usual shift duties:

• Check for every beam run if the LED ampilude changed in respect to the reference plot Nada made the last day. If you recognize a change check first if the CMB has the right supply voltage (see last enttry) and then RE-INIT and check the CMB. There exist two buttons to performe this actions in the slowcontrol CMB main panel, which is shown in the picture below. Any difference from the reference should be documented in the logbooks (ELOG&paperlog)

• Performe the CMB power check before and after each LED calibration run (ahcGain, ahcPmLedVcalibScan & ahcCmLedVcalib scan). Both positive and negativ results have to be documented in the logboobks



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/18.07/2007-07-18T03:17:02-00.jpg

2007-07-18 04:41 **calibration runs**

330622	ahcCmNoise	-e 20000
330623	ahcPmNoise	-e 20000
330624	ahcCmLedVcalibScan	
330625	ahcPmLedVcalibScan	
330626	ahcGain	

CMB 12V readings are all above 12V (all 13-13.5V)

2007-07-18 05:51 Hakan/Nicola/Georg **muon run**

330627	beamData	100x100	-80GeV	mu-	555	air	air	N/A	0,0	split beam file in 250 kevt
330628	beamData	100x100	-80GeV	mu-	555	air	air	N/A	0,0	split beam file in 250 kevt

2007-07-18 08:00 Hakan/Nicola/Georg **calibration runs**

330630	ahcCmNoise	-e 20000
330631	ahcPmNoise	-e 20000
330632	ahcCmLedVcalibScan	
330633	ahcPmLedVcalibScan	
330634	ahcGain	

CMB 12V readings are all above 12V (all 13-13.5V)

2007-07-18 08:12 Hakan/Nicola/Georg **Safety run**

ECAL safety run started

2007-07-18 10:15 Beni **HV off**

Sven will work on the CMB power alarm. I switched the HCAL HV to 10 V for this work.

2007-07-18 13:12 Sven **CMB power LEDs**

The problem with the power LEDs on the CMB panel is solved. Now one can exactly see, which power supply is on or off.

2007-07-18 13:14 Sven **problems with eLogbook**

The eLogbook group changed a router from 1 GBit to 10 GBit. Hence there were problems on the ethernet,
which should be gone now.

2007-07-18 13:19 **set DAQ to 10x10 trigger**

Switching back to e/pi trigger:

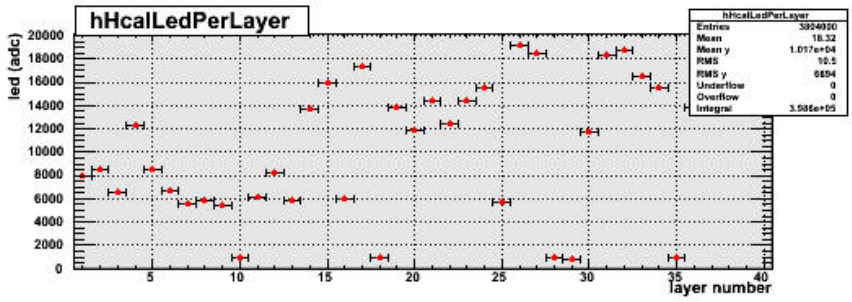
- removed 100x100 front trigger plate
- changed AHC.cfg link to AHC_CERN07_beamhold_10x10.cfg
- changed sequenceDelay in EmcConfiguration.hh to 13
- build runner
- DAQ shutDown & startUp

2007-07-18 14:40 Beni **CMB check run**

330635	beamData	-v 197	N/A	N/A	N/A	N/A	N/A	N/A	

2007-07-18 15:18 **CMB test**

this is the result of the CMB test



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/18.07/2007-07-18T15:18:02-00.gif

2007-07-18 15:18 Beni **gain calibration**

330636	ahcGain								stopped after a few configurations for slow control work

2007-07-18 16:00

330640	ahcGain

2007-07-18 20:00 Beni **summary of todays CMB/ slow control work**

- Sven improved the CMB low voltage display in the slow control (see earlier entries)
- On Sven's request I bridged the voltage sensing of the CMB power supplies. This improves the switch on behaviour and should make a fault like we had over the last days much more unlikely. But this also reduces the voltage at the CMB for approximately 0.7 V. There is a test gain run (330640) to check if this influences the CMB operation or not.
- Sven & me checked the mapping of the HBAB slow control readout
- Nanda & me took out the CMB from layer 10, which did not show light at all, for further error diagnosis
- I tested the TCalib & VCalib signals at the outlet of the module in layer 10 and these were ok. Therfore, the error has to be in the CMB itself.

2007-07-18 20:38 Beni, Oliver **pi- 8GeV**

330641	beamData	10x10	-8GeV	pi-	525	4mm Pb	air	2.98	0,0	250k events

10x10 trigger coincidence: 2.2 kpps
DAQ rate: 80 Hz

2007-07-18 21:37 Beni, Oliver, Manqi **10 GeV pion run**

330643	beamData	10x10	-10GeV	pi-	520	4mm Pb	air	2.613	0,0	250k events

2007-07-18 22:28 Beni, Oliver, Manqi **12 GeV pion run**

330645	beamData	10x10	-12GeV	pi-	524	4mm Pb	air	2.613	0,0	250k events

2007-07-18 23:56 Manqi, Petr, Fabi **15 GeV pion run**

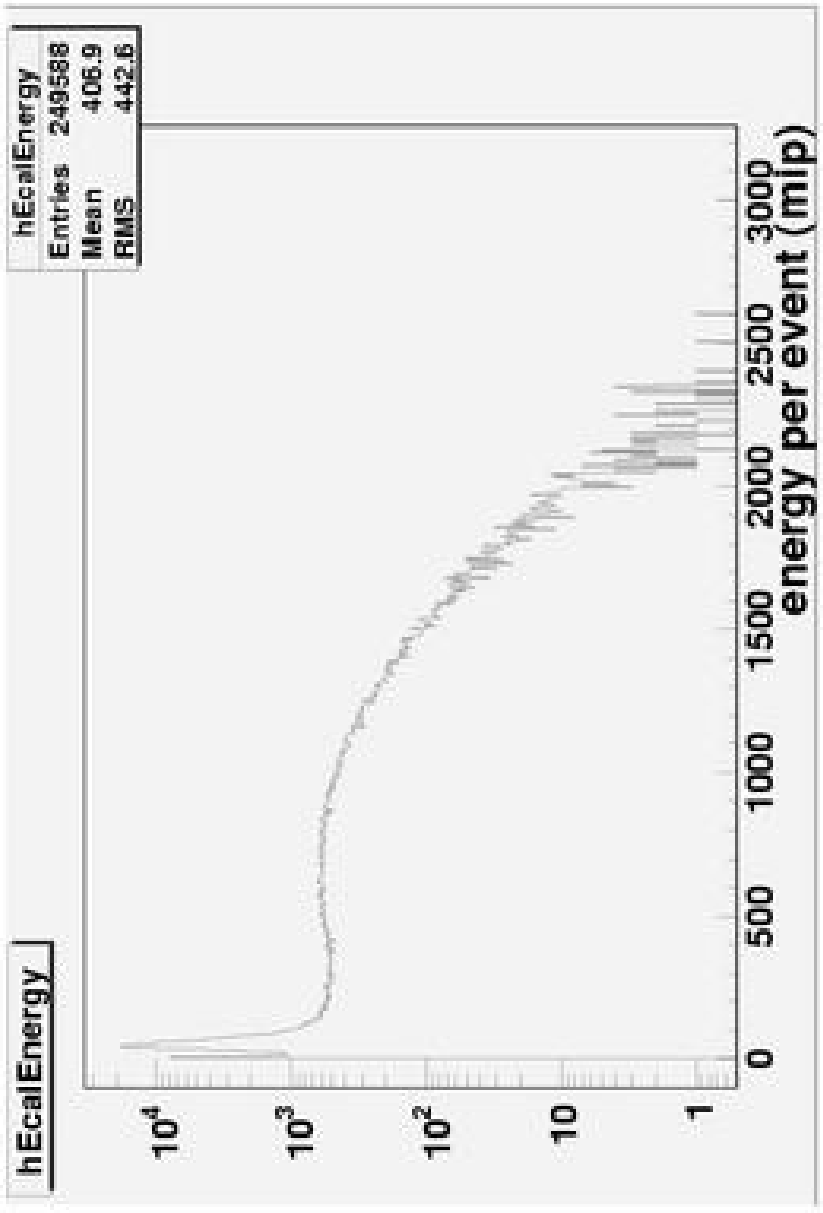
330647	beamData	10x10	-15GeV	pi-	521	8mm Pb	air	1.3552	0,0	274k

Change the absorber to 8mm Pb to reduce the electron signal in ECAL. see attached plot

Change the collimator 2, 3, 8 to -6.0 ~ 6.0 to increase the trigger rate.

beam off for about 15 min during this run.

trigger rate now: 1.70k



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/18.07/2007-07-18T23:56:52-04.ps

2007-07-19 01:07 Manqi, Petr, Nicola **18 GeV pion run**

330648	beamData	10x10	-18GeV	pi-	522	8mm Pb	air	0.9300	0,0	250k

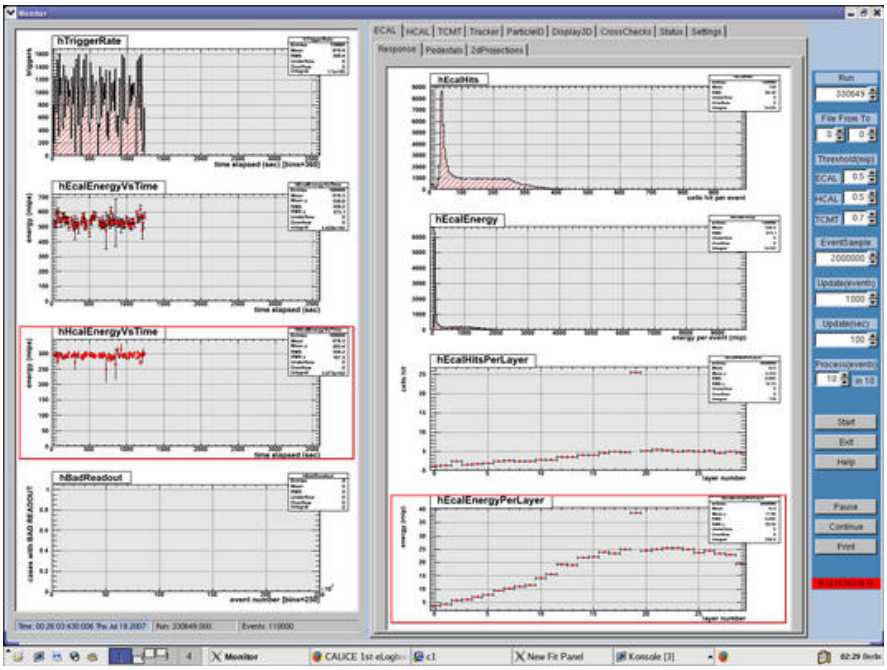
Change Collimator 2, 3 to (-6,6), trigger rate 3.1k

2007-07-19 02:04 Manqi, Petr, Nicola **20 GeV pion run**

330649	beamData	10x10	-20GeV	pi-	523	8mm Pb	air	0.7500	0,0	253k

Change Collimator 2, 3 to (-6,6), trigger rate 4.55k

ECAL noisy layer 2, 19



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/19.07/2007-07-19T02:04:43-01.png

2007-07-19 02:56 Manqi, Petr, Nicola **25 GeV pion run**

330650	beamData	10x10	-25GeV	pi-	526	8mm Pb	air	0.5016	0,0	

Trigger rate 3.6k

2007-07-19 03:46 Manqi, Petr, Nicola

330651	ahcCmNoise	-e 20000

2007-07-19 03:49 Manqi, Petr, Nicola

330652	ahcPmNoise	-e 20000

2007-07-19 03:50 Manqi, Petr, Nicola

330653	ahcCmLedVcalibScan	

2007-07-19 03:53 Manqi, Petr, Nicola

330654	ahcPmLedVcalibScan	

2007-07-19 03:56 Manqi, Petr, Nicola

330655	ahcGain	

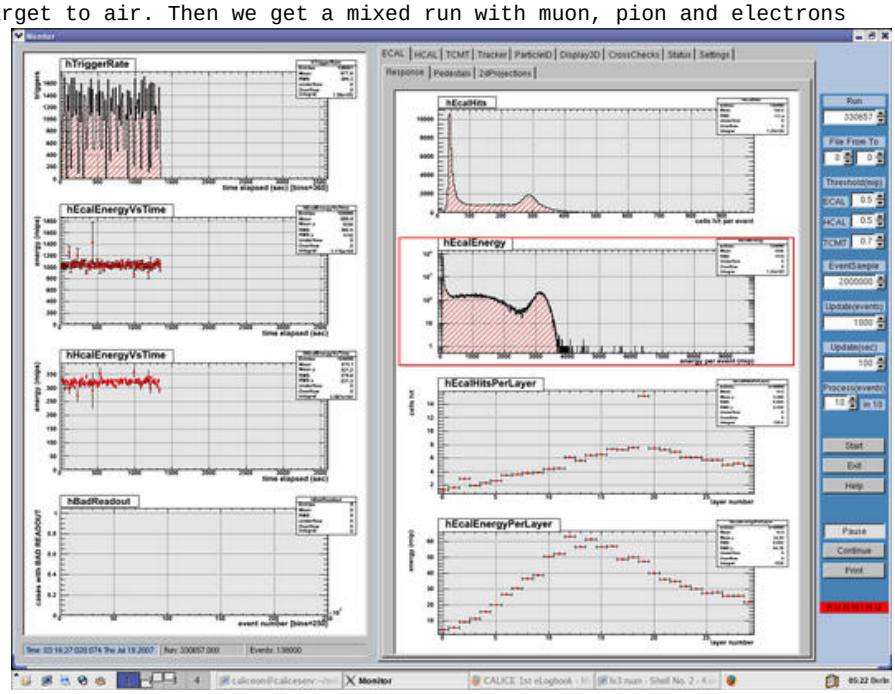
2007-07-19 04:41			Manqi, Petr, Nicola	**25 GeV electron run**						
330656	beamData	10x10	-25GeV	e-	526	air	6mm Pb	0.4896	0,0	

Trigger rate 2.9k

First set the target to be lead. But then read from monitor the pure pion signal. so decide to remove
the lead.

2007-07-19 04:56			Manqi, Petr, Nicola	**electron run 25GeV**					
330657	beamData	10x10	-25GeV	e-	526	air	air	0.4896	0,0

Changing the target to air. Then we get a mixed run with muon, pion and electrons



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/19.07/2007-07-19T04:56:59-02.png

2007-07-19 05:39			Manqi, Petr, Nicola	**electron run 20GeV**					
330658	beamData	10x10	-20GeV	e-	523	air	air	0.7366	0,0	250k

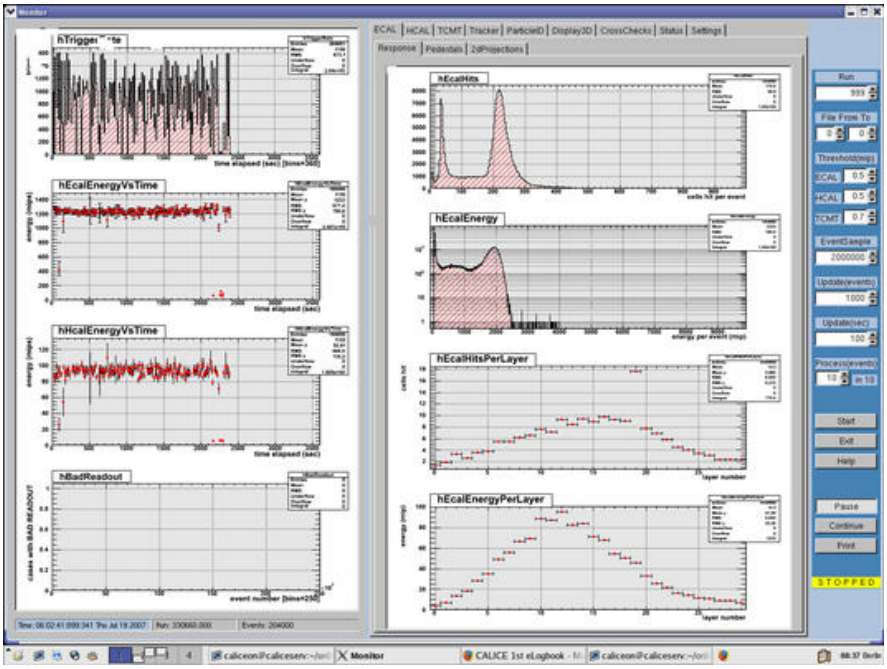
2007-07-19 06:30			Manqi, Petr, Nicola	**18 GeV electron run**					
330659	beamData	10x10	-18GeV	e-	522	air	air	0.9300	

change collimator 1 to (-3,3), collimator 5 to (-5,5)
Current trigger rate 9.5k

2007-07-19 07:18			Manqi, Petr, Nicola	**15 GeV electron run**					
330660	beamData	10x10	-15GeV	e-	521	air	air	1.337	0,0

change collimator 1 and 5 to (-3,3), trigger rate 4.2k

250k events



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/19.07/2007-07-19T07:18:38-02.png

2007-07-19 08:27 MORIN, Imad

330661	beamData	10x10	-12GeV	e-	524	air	air	2.0977	0,0

Collimater 1 and 5 set to [-2,2] and collimator 2 and 3 set to [-5,5]
trigger rate 10.5
few events taken because of beam stop

2007-07-19 08:52 MORIN, Imad

330662	beamData	10x10	-12GeV	e-	524	air	air	2.102	0,0

0,0
Same collimator setting than previous.
Trigger rate 3K
Stopped at 50K event due to an increase of trigger rate (11.5K)

2007-07-19 09:02 MORIN, Imad

330663	beamData	10x10	-12GeV	e-	524	air	air	2.104	0,0

Col 2 and 3 set to -3 3 mm

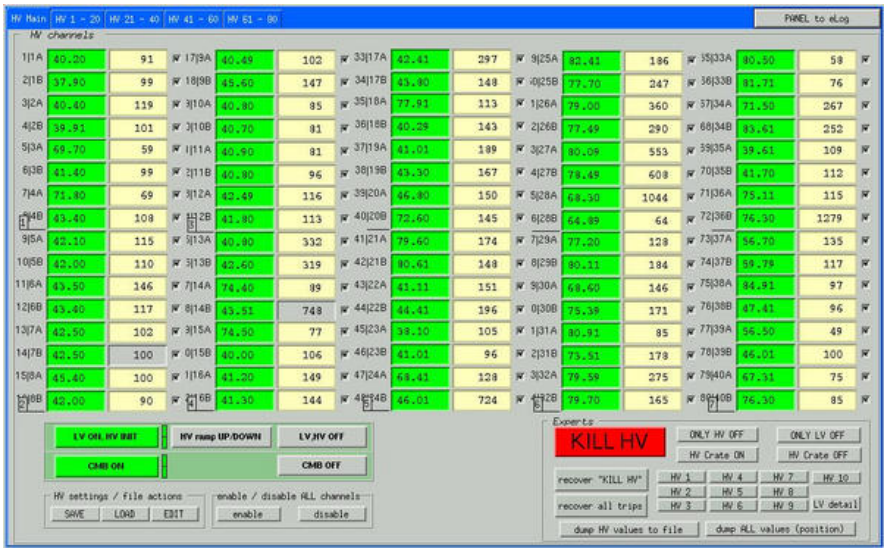
2007-07-19 09:51 Manqi, Petr, Nicola

330664	beamData	10x10	-10GeV	e-	520	air	air	2.59	0,0

colimator setting :
col 1 : -2 2
col 2 : -3 3
col 3 : -3 3
col 5 : -2 2
trigger rate 7.5K
245K events

2007-07-19 10:12 **current limits raised**

Raised current limit for following HV channels: 14, 28 & 51



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/19.07/2007-07-19T10:12:02-00.jpg

2007-07-19 11:10

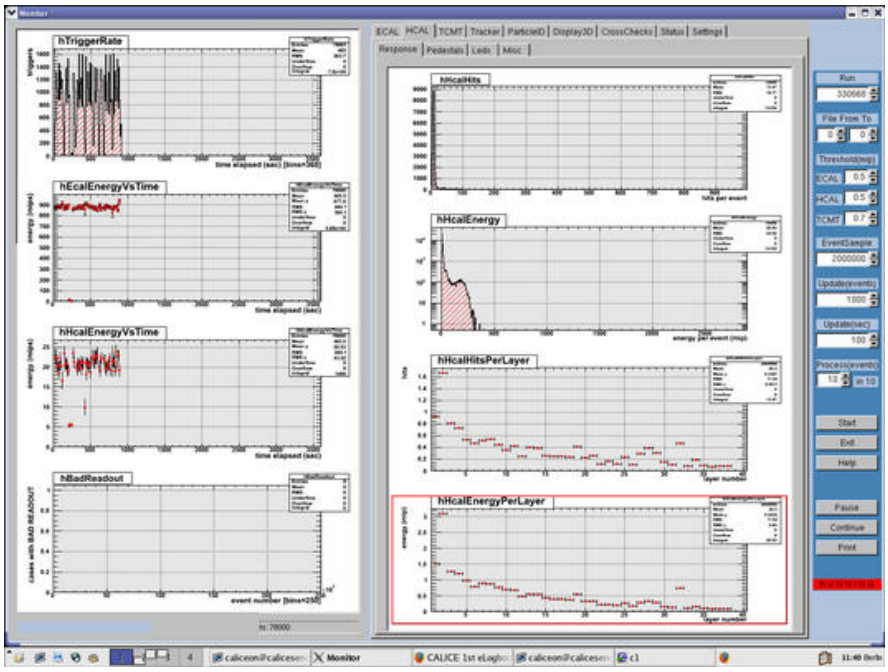
330669	beamData	10x10	-8GeV	e-	525	air	air	2.99	0,0
330668	beamData	10x10	-8GeV	e-	525	air	air	2.99	0,0
330665	beamData	10x10	-8GeV	e-	525	air	air	2.99	0,0

same configuration
160K event

same configuration> Stopped after 83 kevts because of beam stop

col 1,2,3,5 set to -3 3
trigger rate 4.58
24K events

The second layer is noisy since the night shift



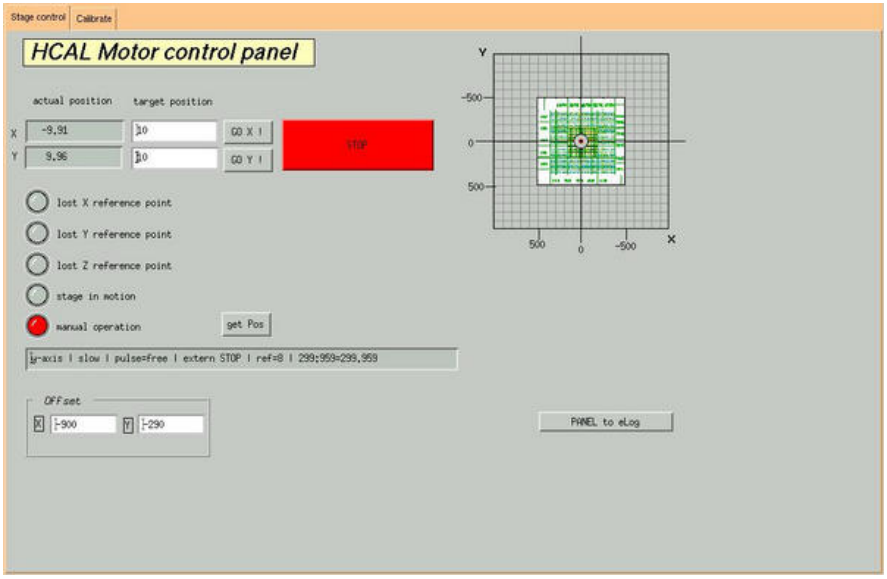
File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/19.07/2007-07-19T11:10:51-03.png

2007-07-19 12:11 MORIN, Imad

330670	ahcCmNoise -e 20000	
330671	ahcPmNoise -e 20000	
330672	ahcCmLedVcalibScan	
330673	ahcPmLedVcalibScan	

2007-07-19 12:58 **new position**

moved stage 2 cm down



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/19.07/2007-07-19T12:58:03-00.jpg

2007-07-19 12:59 MORIN, Imad

330674	beamData	10x10	-8GeV	pi-	525	4mm Pb	air	2.99	0,+3	

beam position control with pions,
Used 525 (obstacles changed)
col setting :
col 1 : -20 20
col 2 : -3 3
col 3 : -3 3
col 5 : -15 15

2007-07-19 13:00 MORIN, Imad

330675	ahc gain	
330676-330679	adjusting and no beam	

2007-07-19 17:58 Oliver/Allister/Hengne

330680	beamData	10x10	-8GeV	pi-	525	4mm Pb	air	0.28-1.6	0,+3	drop
330681	beamData	10x10	-8GeV	pi-	525	4mm Pb	air	1.6-2.5	0,+3	170k waiting for cherenkov pressure going up

2007-07-19 18:17 Oliver/Allister/Hengne

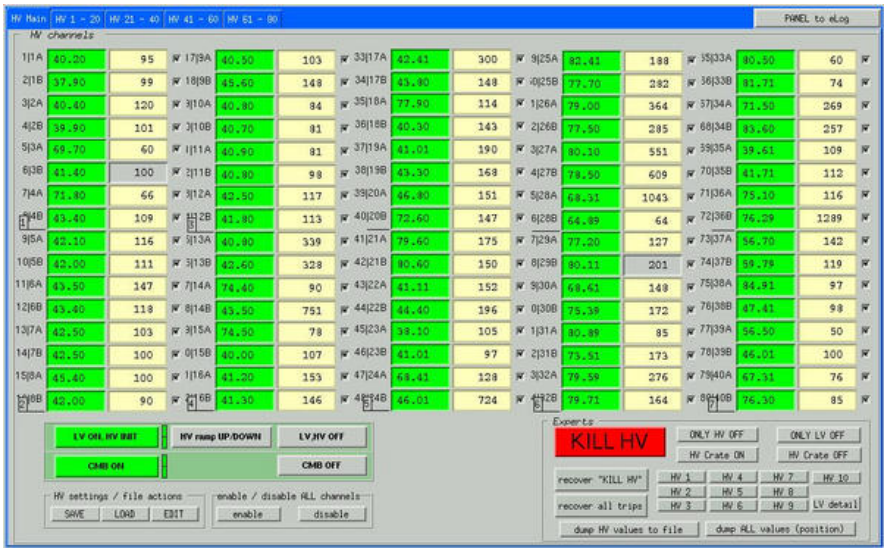
330682	beamData	10x10	-8GeV	pi-	525	8mm Pb	air	2.99	0,+3	252k Events

10x10 trigger coincidence: 4.2 kpps
DAQ rate: 75 Hz

Collimators COLL02, COLL03 and COLL08 have been increased to +/-10mm to increase trigger rate.

2007-07-19 18:36 **SiPM currents rising**

SiPM currents in Ch 6 and Ch 58 rising slowly. Ch 6: 100uA, Ch 58: 201uA



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/19.07/2007-07-19T18:36:02-00.jpg

2007-07-19 18:47 poeschl **cogri scripts to be stopped**

Hi there,

since the desy mass storage had some problems I need to stop and
restart the cogri scripts now.

I will keep them under control until further notice.

Cheers,

Roman

2007-07-19 19:14 Oliver/Allister/Hen **pion run**

330683	beamData	10x10	-10GeV	pi-	520	8mm Pb	air	2.59	0,+3	195k Events

2007-07-19 19:37 Oliver/Allister/Hen **Gaussian Fit for electron and pion runs**

gaussian fits for hHcalEnergy for pion runs
and for hEcalEnergy for electron runs

pions				
Run No.	Energy (GeV)	mean(mips)	sigma(mips)	sigma/mip(%)
330641	-8	178.9	39.68	22.18
330643	-10	227.7	43.88	19.27
330645	-12	277.6	46.63	16.80
330647	-15	353.3	50.46	14.28
330648	-18	429.6	53.50	12.45
330649	-20	476.8	55.81	11.71
330650	-25	597.7	61.49	10.29
electron				
Run No.	Energy (GeV)	mean(mips)	sigma(mips)	sigma/mip(%)
330669	-8	1081	96.01	8.88
330664	-10	1331	108.3	8.14
330663	-12	1574	124.4	7.90
330660	-15	1927	137.8	7.15
330659	-18	2285	146.4	6.41
330658	-20	2540	151.1	5.95
330657	-25	3128	174.7	5.59

2007-07-19 20:16 Oliver/Allister/Hen **calibration runs**

Beam stopped due to power failure, so take lots of calibration data

330684	ahcCmNoise	-e 20000
330685	ahcPmNoise	-e 20000
330686	ahcCmLedVcalibScan	
330687	ahcPmLedVcalibScan	
330688	ahcGain	
330689	ahcGain	--> junk! accidentally clicked Start Run
330690	ahcGain	

330691	ahcGain	
330692	ahcPmLedVcalibScan	
330693	Reload Hcal DAC settings	
330694	ahcCmLedVcalibScan	

2007-07-19 22:06 Roman **Cogri scripts restarted**

Dear Colleagues,

I have restarted the cogri scripts. The data will be shipped to desy as before since during my work the desy dcache became alive again.

The control of the scripts has been handed back to the shift crew.

Due to the interruption copying and conversion will be behind. I hope that it will have kept up with the data taking until the 930h meeting tomorrow. Please take this into account when you go through the checklist.

In principle there is no need to restart the cogri scripts by the shift crew unless

a) being told by the run-coordinator(s) or by me.
b) after a restart of the caliceserv.

The cogri scripts should always be started by

start_cp.sh

from anywhere on caliceserv .

This script contains now a safety check whether there are already running cogri scripts.

If it finds one or more running processes it

a) kills the process(es) and eveything belonging to it(them)
b) re-launches the cogri scripts which resume their work two runs after the one indicated by the special file .last.nnnnnn.
This avoids the hanging of the scripts on incomplete copied runs.
The necessary repair work will then be done afterwards by me.

Cheers,

Roman

2007-07-19 22:42 Oliver/Allister/Hengne

330695	beamData	10x10	-10GeV	pi-	520	8mm Pb	air	2.59	0,+3	63k Events

Beam is back, at 22:42, continue taking data.

10x10 trigger coincidence: 1.3 kpps
DAQ rate: 60 Hz

2007-07-19 22:43 Beni **raise of current limits**

For following HV channels the current limit was raised: 2, 6, 25, 26, 33, 58



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/19.07/2007-07-19T22:43:02-00.jpg

2007-07-19 23:32 Oliver/Allister/Hengne

330696	beamData	10x10	-12GeV	pi-	524	8mm Pb	air	2.10	0,+3	200k Events

10x10 trigger coincidence: 1.0 kpps
DAQ rate: 54 Hz

2007-07-19 23:37 Oliver/Allister/Hengne **PMT readout power supply failure**

One channel of the PMT test-board readout LV power failed.
We replaced the power supply.
Nevertheless, the readout shows no resonable signal.

2007-07-20 02:08 Manqi, Petr, Nicola **12 GeV pion run**

330702	beamData	10x10	-12GeV	pi-	524	8mm Pb	air	2.10	0,+3	80k Events

Continued from run 330696

2007-07-20 02:30 Manqi, Petr, Nicola

330703	beamData	10x10	-15GeV	pi-	521	8mm Pb	air	1.3552	0,+3	250k Events

change colimator 2,3,8 (-6,6) triger rate 1.5k

2007-07-20 03:39 Manqi, Petr, Nicola **18 GeV pion run**

330704	beamData	10x10	-18GeV	pi-	522	8mm Pb	air	0.9421	0,+3	250k Events

change colimators 2 {-4,4} and 3 {-6,6}; triger rate 2.6k

2007-07-20 04:35 Manqi, Petr, Nicola **20 GeV pion run**

330705	beamData	10x10	-20GeV	pi-	523	8mm Pb	air	0.7607	0,+3	250k Events

triger rate 1.7k

2007-07-20 05:36 Manqi, Petr, Nicola **25 GeV pion run**

330706	beamData	10x10	-25GeV	pi-	526	8mm Pb	air	0.5	0,+3	250k Events

2007-07-20 07:50 Manqi, Petr, Nicola **8Gev electron run**

330712	beamData	10x10	-8GeV	e-	525	air	air	2.9816	0,+3	75 K

beam interuption

2007-07-20 08:21 kieffer, Fabbri, Morin

330713	beamData	10x10	-8GeV	e-	525	air	air	2.99	0,+3	235K events

same configuratin as previous run

2007-07-20 09:35 kieffer, Fabbri, Morin

330714	beamData	10x10	-10GeV	e-	520	air	air	2.6	0,+3	173K events

trigger at 6.6K

2007-07-20 14:19 kieffer, Fabbri, Morin

330722	beamData	10x10	-20GeV	e-	523	air	air	0.76	0,+3	130k Events

trigger rate 9.8K

many pion contamination

2007-07-20 16:18 kieffer, Fabbri, Morin

330728 Garbage Run	

2007-07-20 16:19 kieffer, Fabbri, Morin

330729	ahcGain

2007-07-20 17:40 kieffer, Fabbri, Morin

330731 Garbage Run	

2007-07-20 17:54 Oliver/Allister/Hengel **electron run**

330732	beamData	10x10	-25GeV	e-	526	air	air	0.5	0,+3	92k Events

10x10 trigger coincidence: 6.5 kpps
DAQ rate: 90 Hz

stopped run due to large pion contamination, n_electron/n_pion = 1/4, set COL03 and COL08 to +/-2mm

2007-07-20 18:17 Oliver/Allister/Hengel **electron run**

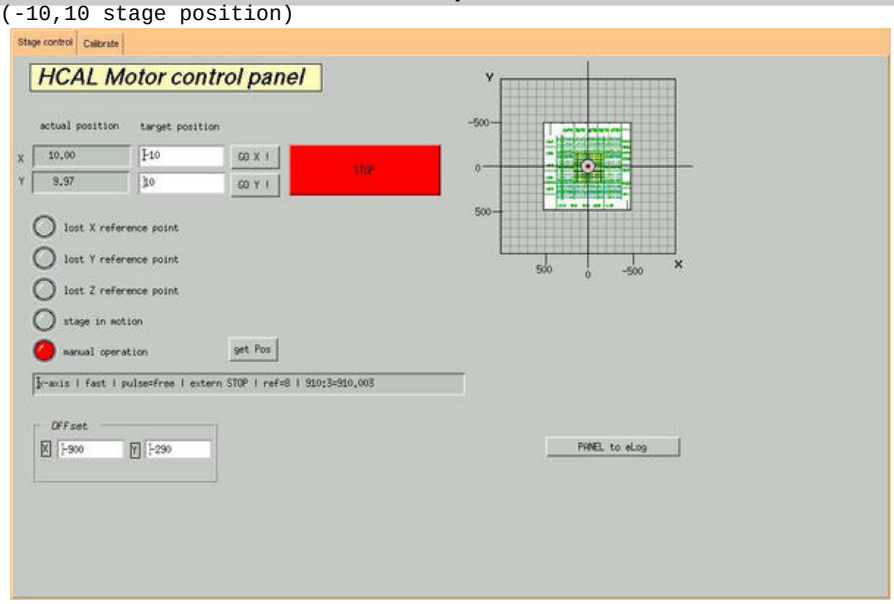
330733	beamData	10x10	-25GeV	e-	526	air	air	0.5	0,+3	263k Events

10x10 trigger coincidence: 6.0 kpps
DAQ rate: 80 Hz

still large pion contribution, but Cherenkov seems to work fine

2007-07-20 19:20 Beni **new position**

moved to -3,3 (-10,10 stage position)



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/20.07/2007-07-20T20:04:02-00.jpg

2007-07-20 19:23 Oliver/Allister/Hengel **Test run**

330734	Test Run to check positon of beam
330735	Test Run to check positon of beam

stage has been moved to (-3,3)

2007-07-20 19:35 **desy dcache unavailable**

Hi there,

according to the desy it news he desy mass storage is currently *not* available.

http://it-news.desy.de/?type=trouble&refresh=300&lang=en

I don't know when the problem will be solved.

I have stopped and restarted the copy scripts and redirected everything to lyon. The copying
and conversion has resumed at run 330725 (sorry I have missed the switch to data01
this noon).

This remains true until further notice.

Control of the copy scripts handed back to shift crew.

Unfortunately, this also affected the conversion of some runs which either
failed or which I had to abort due to the problem.
Therefore there are some holes in the sequence of converted runs.

Cheers,

Roman

2007-07-20 19:47 Oliver/Allister/Hen **pion run**

330736	beamData	10x10	-25GeV	pi-	526	4mm Pb	air	0.49	-3,+3	a few k Events

10x10 trigger coincidence: 5.1 kpps
DAQ rate: ? Hz

run stopped after a few 1000 events due to access to detector

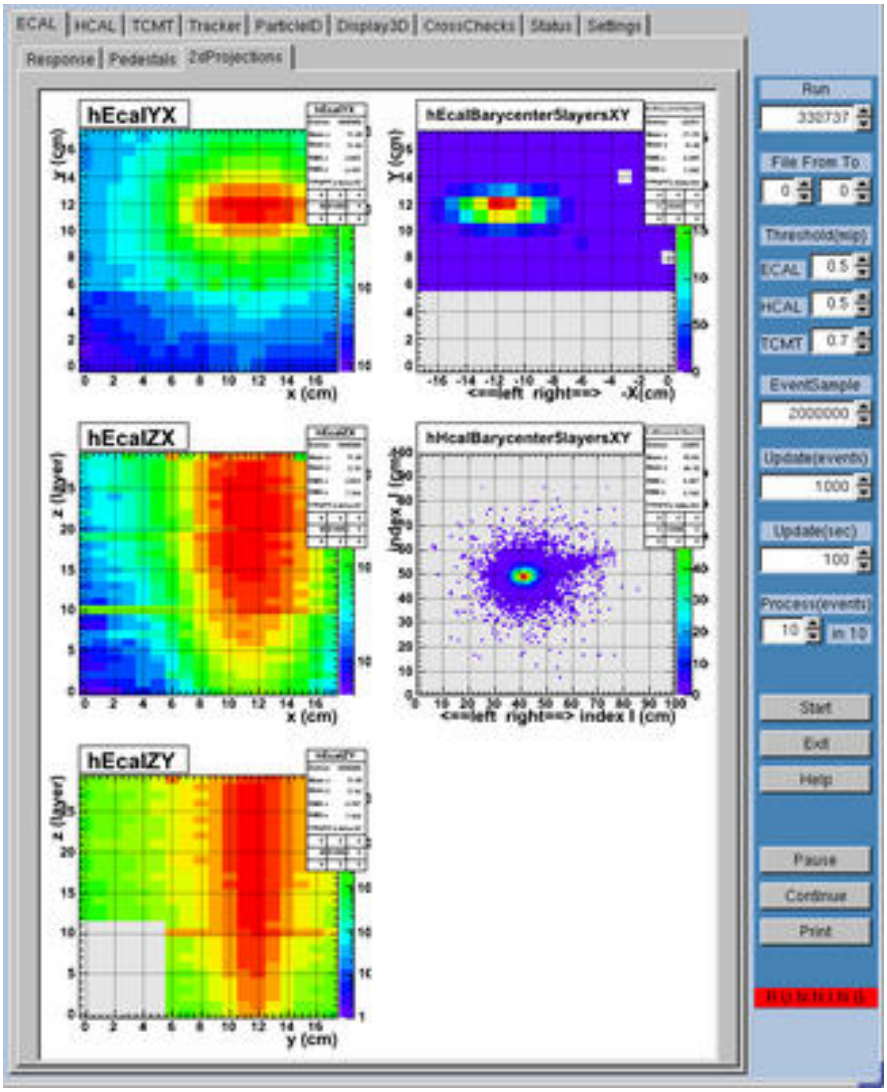
2007-07-20 19:50 Oliver/Allister/Hen **pion run**

330737	beamData	10x10	-25GeV	pi-	526	4mm Pb	air	0.49	-3,+3	256k Events

10x10 trigger coincidence: 5.1 kpps
DAQ rate: 72 Hz

2007-07-20 20:09 caliceon@calicesupervisor **Position Check**

position check in ECAL after changing of stage position to (-3,3)



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/20.07/2007-07-20T20:09:02-00.png

2007-07-20 20:49 Oliver/Allister/Henon **pion run**

330738	beamData	10x10	-20GeV	pi-	523	4mm Pb	air	0.75	-3,+3	254k Events

10x10 trigger coincidence: 5.4 kpps
DAQ rate: 88 Hz

2007-07-20 21:44 Oliver/Allister/Henon **pion run**

330739	beamData	10x10	-18GeV	pi-	522	4mm Pb	air	0.936	-3,+3	255k Events

NOTE: Cherenkov went a bit above the desired threshold later in the run: actual value=0.9432, desired
threshold=0.94
10x10 trigger coincidence: 4.6 kpps
DAQ rate: 86 Hz

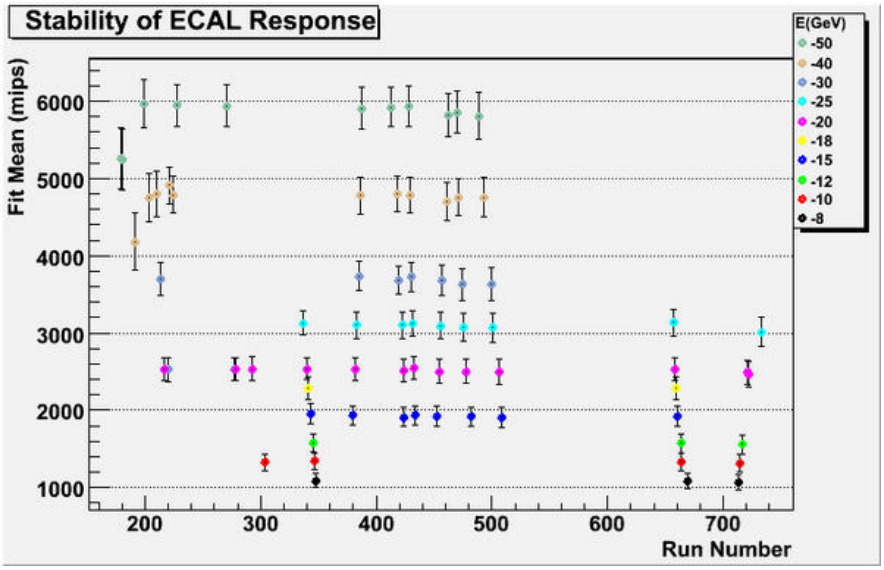
2007-07-20 22:49 Oliver/Allister/Henon **pion run**

330740	beamData	10x10	-15GeV	pi-	521	4mm Pb	air	1.35	-3,+3	254k Events

10x10 trigger coincidence: 2.9 kpps
DAQ rate: 80 Hz

2007-07-20 23:26 Oliver/Allister/Henon **stability of ECAL response**

We plotted the mean of the gaussian fit of hEcalEnergy for electron runs against the run number (i.e. time). The error bars are actually the gaussian sigma.

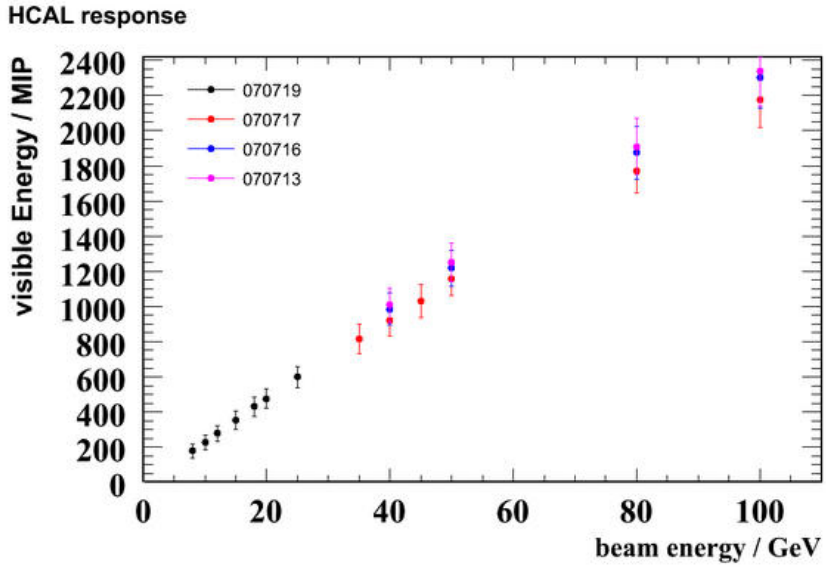


File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/20.07/2007-07-20T23:26:20-00.png

2007-07-20 23:32 Oliver/Allister/Henglish **HCAL Response**

The plot shows the response of the HCAL in MIPs for pions beams of different energies. The HCAL response is given by the mean of a gaussian fit of hEcalEnergy spectrum. The error bars indicate the standard deviation of this fit.

At the moment there are four different scans for different days, ranging from July 13th 2007 to July 19th 2007, displayed in the plot.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/20.07/2007-07-20T23:32:32-01.png

2007-07-20 23:52 Oliver/Allister/Henglish **pion run**

330741	beamData	10x10	-12GeV	pi-	524	4mm Pb	air	2.08	-3,+3	90k Events

10x10 trigger coincidence: 3.8 kpps
DAQ rate: 75 Hz

2007-07-20 23:54 Oliver/Allister/Henglish **Gaussian Fit for electron and pion runs**

gaussian fits for hHcalEnergy for pion runs
and for hEcalEnergy for electron runs

pions				
Run No.	Energy (GeV)	mean(mips)	sigma(mips)	sigma/mip(%)
330737	-25	591.2	67.2	11.4
330738	-20	469.2	61.3	13.1

330739	-18	424.1	59.3	14.0
330740	-15	347.5	56.8	16.3
330741	-12	272.3	50.6	18.6
330742	-12	277.1	48.5	17.5
330743	-10	224.2	46.1	20.6
330744	-8	175.2	41,7	23.8

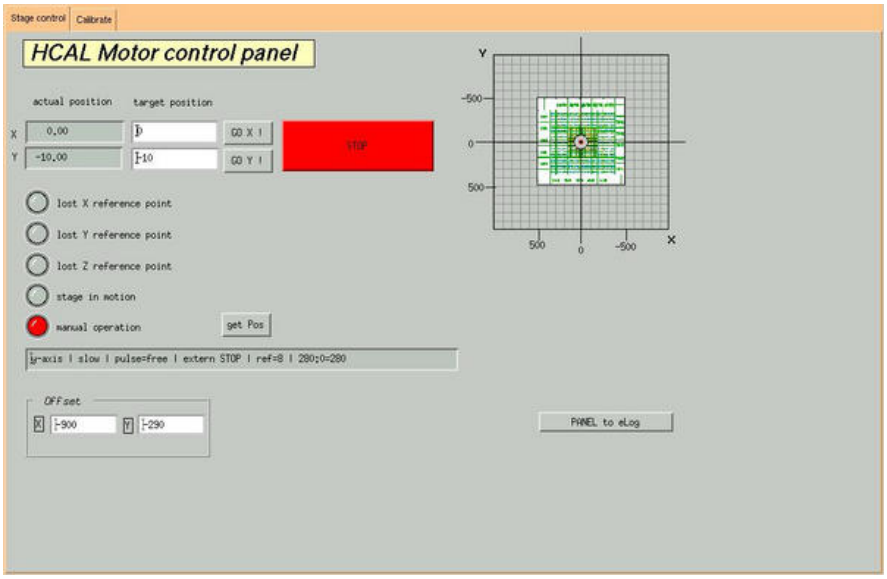
electron				
Run No.	Energy (GeV)	mean(mips)	sigma(mips)	sigma/mip(%)
330733	-25	2995	201.0	6.71

2007-07-14 03:38 Hakan/Oliver/Wenbiao **ahcGain**

330425	ahcGain								

2007-07-14 04:13 **new position**

moved stage to x center and 1 cm upwards (0,-10 in target position)



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/14.07/2007-07-14T04:13:02-00.jpg

2007-07-15 00:24 Valeria/Wenbiao/Oliver **electron run**

330455	beamData	10x10	-25GeV	e-	535	air	6mm Pb	0.4776	0,+3	250kEvts

DAQ rate: 70 Hz
~2.1k pps in 10x10 trigger coincidence
TRIM06 reading 0.2 BeamRef -0.167, control room confirmed within limit of 0.3
Problems with elog

2007-07-15 00:53 Valeria/Wenbiao/Oliver **elog**

elog is running without problems again

2007-07-15 01:28 Valeria/Wenbiao/Oliver **electron run: 30 GeV**

330456	beamData	10x10	-30GeV	e-	534	air	6mm Pb	0.35	0,+3

DAQ rate: 66 Hz
~2.0k pps in 10x10 trigger coincidence

stopped after 249 kev because no beam from CPS for 10 minutes

2007-07-15 02:35 Valeria/Wenbiao/Oliver **ahcCMNoise, ahcPMNoise, ahccmLEDVcalibScan and ahcPMLEDVcalibScan Runs**

330457	ahcCMNoise Run								10k events
330458	ahcPMNoise Run								10k events
330459	ahcCMLEDVcalibScan								20k events
330460	ahcPMLEDVcalibScan								43k events

Take AHCAL calibration

2007-07-15 03:01 Valeria/Wenbiao/Oliver **e+ 40 GeV**

330461	beamData	10x10	-40GeV	e-	531	air	6mm Pb	0.1	0,+3

DAQ rate: 82 Hz
~4.0k pps in 10x10 trigger coincidence

beam is back

2007-07-15 03:52 Valeria/Wenbiao/Oliver **50 GeV**

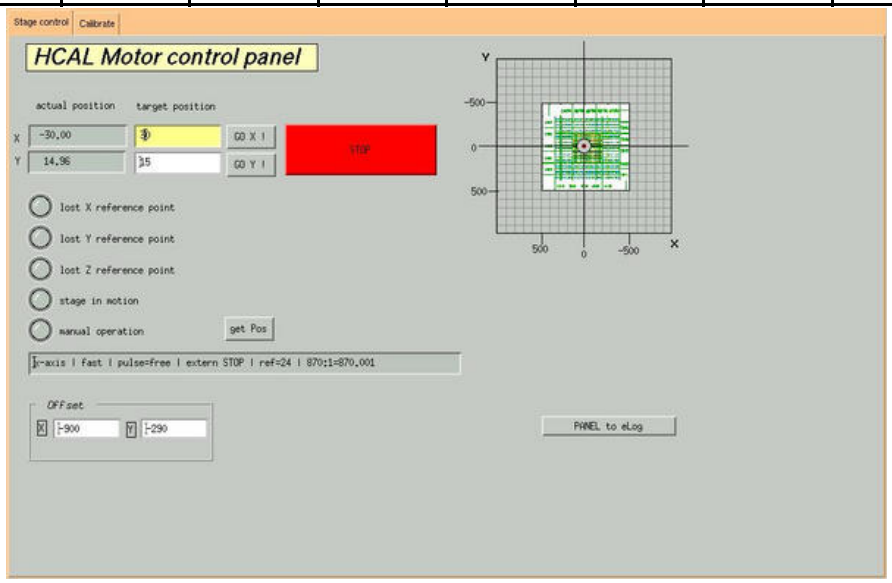
330462	beamData	10x10	-50GeV	e-	530	air	6mm Pb	0.1	0,+3	250kev

DAQ rate: 66 Hz
spill rate 2.1k

2007-07-15 05:04 caliceon@calicehcal02.desy.de **new position**
(CALICE user)

searching ECAL wafer edge -- oops, wrong side

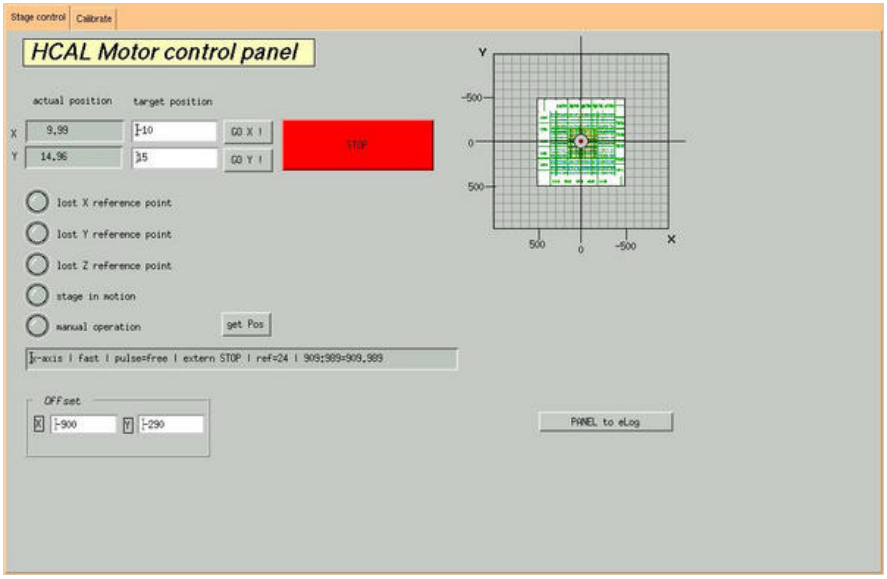
330463	beamData	10x10	-40GeV	pi-	514	4mm Pb	air	N/A	position test run



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/15.07/2007-07-15T05:04:02-00.jpg

2007-07-15 05:09 **new position**

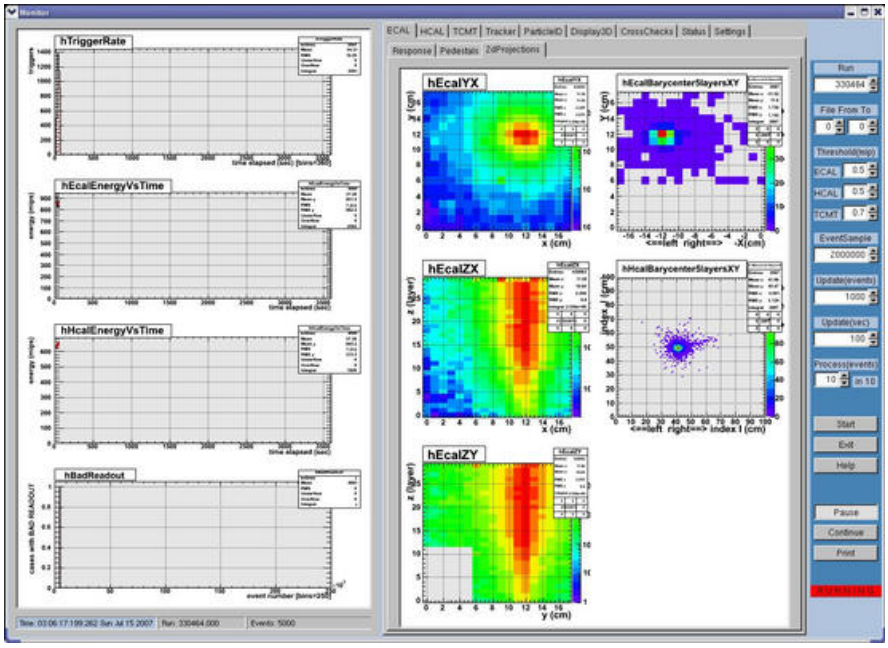
ECAL edge between 4 wafers



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/15.07/2007-07-15T05:09:01-00.jpg

2007-07-15 05:16 Valeria/Wenbiao/Oliver **Test run**

Test run to check movement of stage, -40GeV Pions, Run330464



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/15.07/2007-07-15T04:55:08-00.jpg

2007-07-15 05:25 Valeria/Wenbiao/Oliver **pion run**

330465	beamData	10x10	-40GeV	pi-	514	air	6mm Pb	0.1	-3,+3	30kEvts

junk run: the absorber and the targets were wrong

2007-07-15 05:28 Valeria/Wenbiao/Oliver **pion run**

330466	beamData	10x10	-40GeV	pi-	514	4mm Pb	air	0.1	-3,+3	254kEvts

DAQ rate: 90 Hz
spill: 10kpps

2007-07-15 06:17 Valeria/Wenbiao/Oliver **pion run**

330467	beamData	10x10	-50GeV	pi-	512	4mm Pb	air	0.1	-3,+3	250kEvts

DAQ rate: 101 Hz
spill: 5kpps

2007-07-15 07:06 Valeria/Wenbiao/Oliver **pion run**

330468	beamData	10x10	-80GeV	pi-	510	4mm Pb	air	0.1	-3,+3	250kEvts

DAQ rate: 90Hz
spill: 12kpps

2007-07-15 07:52 Valeria/Wenbiao/Oliver **pion run**

330469	beamData	10x10	-100GeV	pi-	516	4mm Pb	air	0.1	-3,+3

DAQ rate: 70 Hz
spill rate: 6200pps

2007-07-15 08:00 Allister, Mary-Cruz, Beni **new shift**

2007-07-15 08:50 Allister, Mary-Cruz, Beni **50 GeV electrons**

330470	beamData	10x10	-50GeV	e-	530	air	6mm Pb	0.1 bar	-3,+3	250Kevts

2007-07-15 09:56 Allister, Mary-Cruz, Beni **-40 GeV electron run**

330471	beamData	10x10	-40GeV	e-	531	air	6mm Pb	0.0999	-3,+3	250Kevts

2007-07-15 10:52 Allister, Mary-Cruz, Beni

330472	beamData	10x10	-30GeV	e-	534	air	6mm Pb	0.3214	-3,+3	Run stop beam not centered
330473	beamData	10x10	-30GeV	e-	534	air	6mm Pb	0.3214	-3,+3	Tunning the beam possition

2007-07-15 10:56 Allister, Mary-Cruz, Beni

330474	beamData	10x10	-30GeV	e-	534	air	6mm Pb	0.3274	-3,+3	250kEvts

2007-07-15 11:54 Allister, Mary-Cruz, Beni

330475	beamData	10x10	-25GeV	e-	535	air	6mm Pb	0.4956	-3,+3	250kEvts

2007-07-15 13:02 Allister, Mary-Cruz, Beni

330476	beamData	10x10	-20GeV	e-	533	air	6mm Pb	0.7184	-3,+3	Stopped Beam not centered

2007-07-15 13:14 Allister, Mary-Cruz, Beni

330477	beamData	10x10	-20GeV	e-	533	air	6mm Pb	0.7124	-3,+3	262kEvts

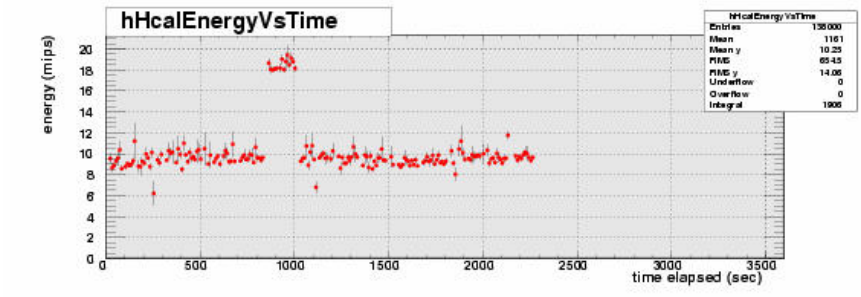
2007-07-15 13:30 Allister, Mary-Cruz, Beni **restartet X server on caliceserv**

X got stuck on caliceserv
- restarted xserver
- restarted cp_comb, cp_ecal, cp_hcal

2007-07-15 14:01 caliceon@caliceserv.cl **energy jump in HCAL**

This jump in energy was recognized during an electron run.
No obvious reason found.

All other detectors do not show this jump.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/15.07/2007-07-15T14:01:02-00.gif

2007-07-15 14:33 Allister, Mary-Cruz, Beni

330478	beamData	10x10	-30GeV	e-	534	air	6mm Pb	1.3309	-3,+3	Run stopped because beam not centered

330479	beamData	10x10	-30GeV	e-	534	air	6mm Pb	1.3309	-3,+3	Beam tuning

⚠ 2007-07-15 14:42 Beni **UPS dead**

One of the 3 UPS we installed last week is broken. It was already marked as not so good. I tested if it can support the monitor in the computer room long enough to do a controlled manual shut down. It switched off after approximately one minute.
I removed this UPS and tried to build a test setup for the auto-shutdown with this one. During a power failure test it broke down completly.

2007-07-15 14:47 Allister, Mary-Cruz, Beni

330480	beamData	10x10	-30GeV	e-	534	air	6mm Pb	1.3369	-3,+3	We took -30 GeV by error. Cherenkov value is set for -15GeV

2007-07-15 16:08 George, Manqi, Nanda **electron run**

330482	beamData	10x10	-15GeV	e-	536	air	6mm Pb	1.3491	-3,+3	250 kev

10x10 trigger rate: 1.6k pps
DAQ rate: 60Hz

2007-07-15 17:30 George, Manqi, Nanda **calibration runs**

330483	ahcCmNoise	-e 10.000
330484	ahcPmNoise	-e 10.000
330485	ahcCmLedVcalibScan	

2007-07-15 17:39 George, Manqi, Nanda **checking stage position**

330487	beamData	10x10	-100GeV	pi-	536	air	6mm Pb	1.3491	-3,+3

moved stage to (+5,+1.5) checking position with pions

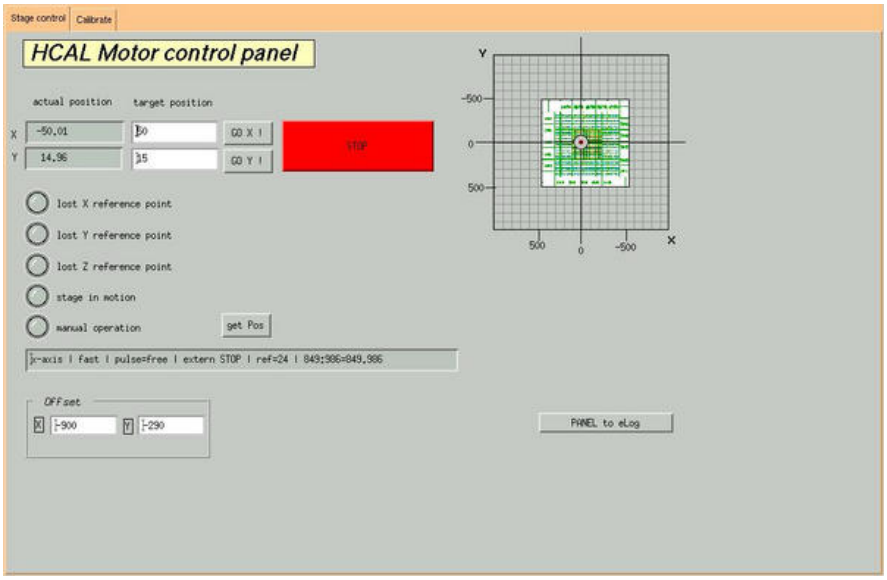
2007-07-15 17:49 George, Manqi, Nanda **electron run**

330488	beamData	10x10	-50GeV	e-	530	air	4mm Pb	0.094	-3,+3	200 kevt

10x10 trigger rate: 1.8k pps
DAQ rate: 50 Hz

2007-07-15 18:26 **new stage position**

moved to ECAL corner between wafers



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/15.07/2007-07-15T18:26:02-00.jpg

2007-07-15 18:45 George, Manqi, Nanda **finish calibration**

330489	ahcPmLedVcalibScan	

just to make the set complete ;)

2007-07-15 18:46 George, Manqi, Nanda **electron run**

330490	beamData	10x10	-40GeV	e-	531	air	4mm Pb	0.094	+3,+3

10x10 trigger rate: 3.4k pps
DAQ rate: 60 Hz

beam position not centered in the drift chambers
-> changed magnet current of TRIM06 to 1A less (now at 17A)

2007-07-15 18:58 George, Manqi, Nanda **electron run**

330491	beamData	10x10	-40GeV	e-	531	air	4mm Pb	0.094	+3,+3	
330492	beamData	10x10	-40GeV	e-	531	air	4mm Pb	0.094	+3,+3	
330493	beamData	10x10	-40GeV	e-	531	air	4mm Pb	0.094	+3,+3	200 kevt

10x10 trigger rate: 3.4k pps
DAQ rate: 60 Hz

beam even further off
-> change trim06 to 20.0 A
and try again...
... much better but not perfect
-> change trim06 to 22.0 A

2007-07-15 19:46 George, Manqi, Nanda **electron run**

330494	beamData	10x10	-30GeV	e-	534	air	4mm Pb	0.35	+3,+3	beamtune
330495	beamData	10x10	-30GeV	e-	534	air	4mm Pb	0.35	+3,+3	beamtune
330496	beamData	10x10	-30GeV	e-	534	air	4mm Pb	0.35	+3,+3	beamtune
330497	beamData	10x10	-30GeV	e-	534	air	4mm Pb	0.35	+3,+3	beamtune
330498	beamData	10x10	-30GeV	e-	534	air	4mm Pb	0.35	+3,+3	beamtune
330499	beamData	10x10	-30GeV	e-	534	air	4mm Pb	0.35	+3,+3	200 kevt

10x10 trigger rate: 2.0 k pps
DAQ rate: 60 Hz
again beam off in the DC
330495-> change trim06 from 15.0A to 13.0A
better, but not good
330496-> changed trim 06 to 10.0A
still off
330497-> change trim06 to 5.0A
much better, but still not perfect
330498-> change trim06 to 2.0A
how far can one be off?
330499-> Now trim06 is changed to 0.0A

2007-07-15 21:26 George, Manqi, Nanda **electron run**

330500	beamData	10x10	-25GeV	e-	535	air	4mm Pb	0.50	+3,+3
330501	beamData	10x10	-25GeV	e-	535	air	4mm Pb	0.50	+3,+3

10x10 trigger rate: 2.0 k pps
DAQ rate: 60 Hz

again beam off in the DC
330501-> change trim06 from 0.0A to -3.0A

2007-07-15 22:22 George, Manqi, Nanda **electron run**

330502	beamData	10x10	-20GeV	e-	533	air	4mm Pb	0.74	+3,+3	beamtune
330503	beamData	10x10	-20GeV	e-	533	air	4mm Pb	0.74	+3,+3	beamtune
330504	beamData	10x10	-20GeV	e-	533	air	4mm Pb	0.74	+3,+3	200 kevt
330505	beamData	10x10	-20GeV	e-	533	air	4mm Pb	0.74	+3,+3	beamtune
330506	beamData	10x10	-20GeV	e-	533	air	4mm Pb	0.74	+3,+3	good

10x10 trigger rate: 1.4 k pps
DAQ rate: 50 Hz

again beam off in the DC
330503-> change trim06 from -3.0A to -8.0A
330504-> oops, overdone -> Back to -5.0A
330505-> wrong direction? -> change to +3.0A
330506-> much better, but still ~1cm off in ECAL -> set trim06 to +6.0A

2007-07-15 23:21 George, Manqi, Nanda

330507	beamData	10x10	-15GeV	e-	536	air	4mm Pb	1.34	+3,+3
330508	beamData	10x10	-15GeV	e-	536	air	4mm Pb	1.34	+3,+3

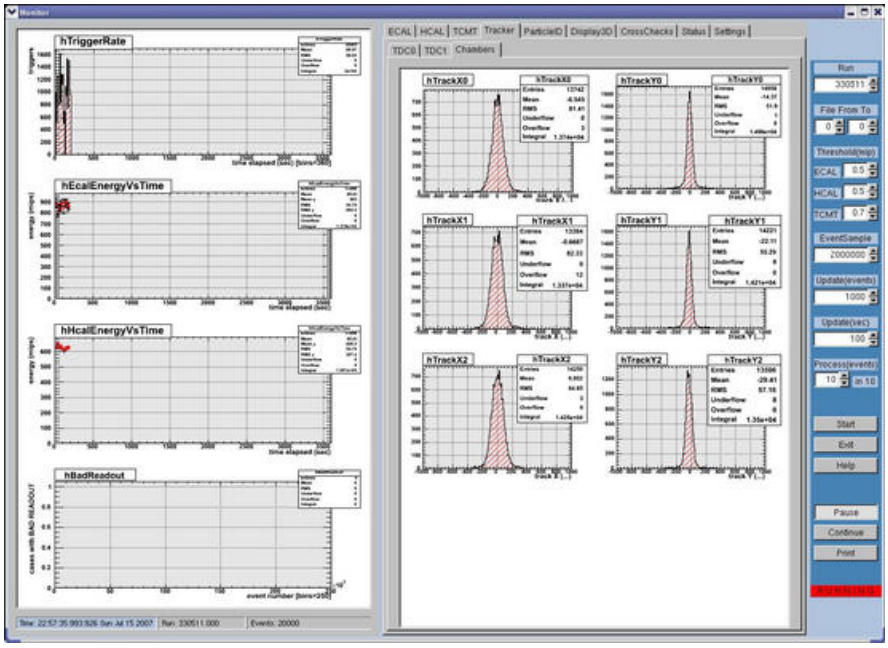
10x10 trigger rate: 1.4 k pps
DAQ rate: 50 Hz

330508->again, have to tune trim06: change from 15 to 12A

2007-07-16 00:45 Hakan/Oliver/Valeria **pi- 40GeV**

330509	beamData	10x10	-40GeV	pi-	514	4mm Pb	Air	N/A	+3,+3	10k events
330510	beamData	10x10	-40GeV	pi-	514	4mm Pb	Air	N/A	+3,+3	5k events
330511	beamData	10x10	-40GeV	pi-	514	4mm Pb	Air	N/A	+3,+3	200k events

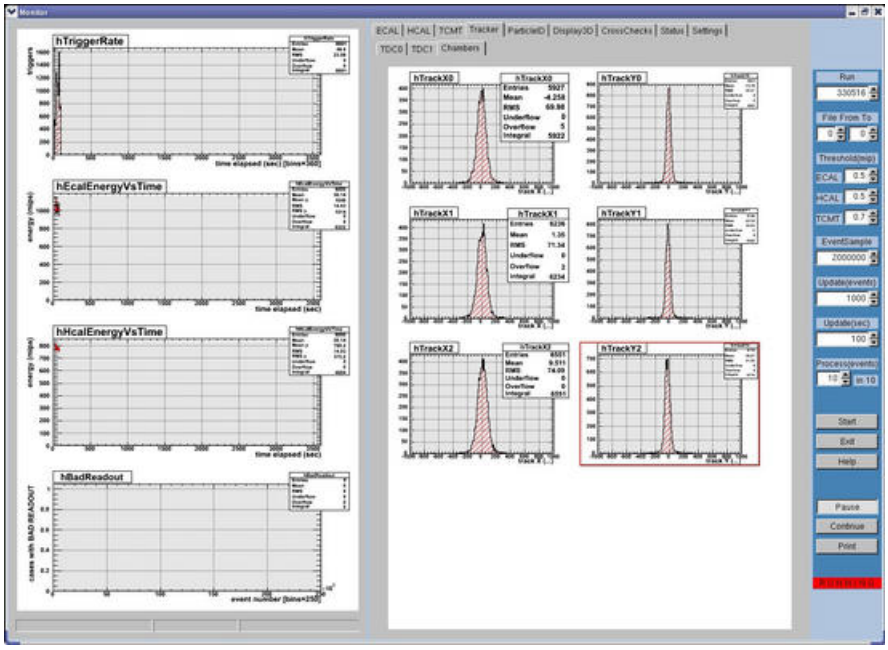
DCs not aligned; changing TRIM06 current from -6.7A to -0.7A.
330510
DCs still not aligned. Changing current to -3.7A.
330511
DCs now aligned.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/16.07/2007-07-16T00:45:39-03.jpg

2007-07-16 01:45			Hakan/Oliver/Valeri	**pi- 50 GeV**						
330512	beamData	10x10	-50GeV	pi-	512	4mm Pb	Air	N/A	+3,+3	beamtune, 20k events
330513	beamData	10x10	-50GeV	pi-	512	4mm Pb	Air	N/A	+3,+3	beamtune, 10k events
330514	beamData	10x10	-50GeV	pi-	512	4mm Pb	Air	N/A	+3,+3	beamtune
330515	beamData	10x10	-50GeV	pi-	512	4mm Pb	Air	N/A	+3,+3	beamtune
330516	beamData	10x10	-50GeV	pi-	512	4mm Pb	Air	N/A	+3,+3	Spill rate 7.2k, 200k events

```
DCs not aligned. Changing TRIM06 current from -8.3A to -9.7A.
330513
Still not aligned. Changing current to -7A.
330514
Still some problems. Changing to -5.0A...
330515
Problems. Now -3.3A.
330516
Aligned now.
```



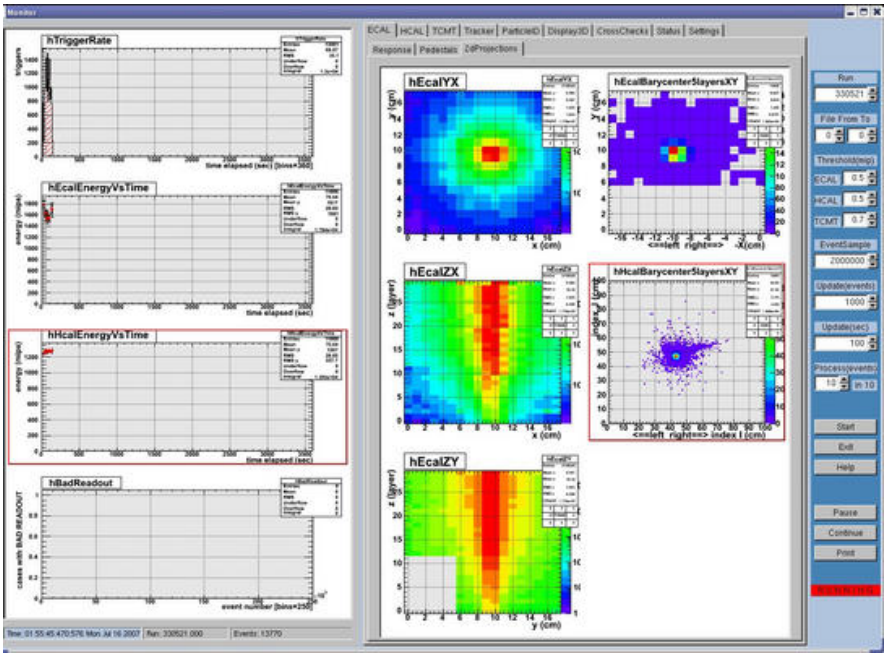
File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/16.07/2007-07-16T01:45:04-02.jpg

2007-07-16 02:42	Hakan/Oliver/Valeri	**pi- 80GeV**								
330517	beamData	10x10	-80GeV	pi-	510	4mm Pb	Air	N/A	+3,+3	beamtune, 9k spill rate
330518	beamData	10x10	-80GeV	pi-	510	4mm Pb	Air	N/A	+3,+3	beamtune, 9k spill rate
330519	beamData	10x10	-80GeV	pi-	510	4mm Pb	Air	N/A	+3,+3	9k spill rate, 250k events

```
Spill rate was too high, so set collimators 2 and 3 from +/- 2.0mm to +/- 1.5mm
DCs not aligned, changing TRIM06 from 13.3A to 7.3A
330518
Still not aligned. Now 4.3A.
330519
Aligned now.
```

2007-07-16 03:49	Hakan/Oliver/Valeri	**Precision test**								
330520	beamData	10x10	-80GeV	pi-	510	4mm Pb	Air	N/A	+3,+3	8k spill rate, 15k events
330521	beamData	10x10	-80GeV	pi-	510	4mm Pb	Air	N/A	+3,+3	8k spill rate, 15k events

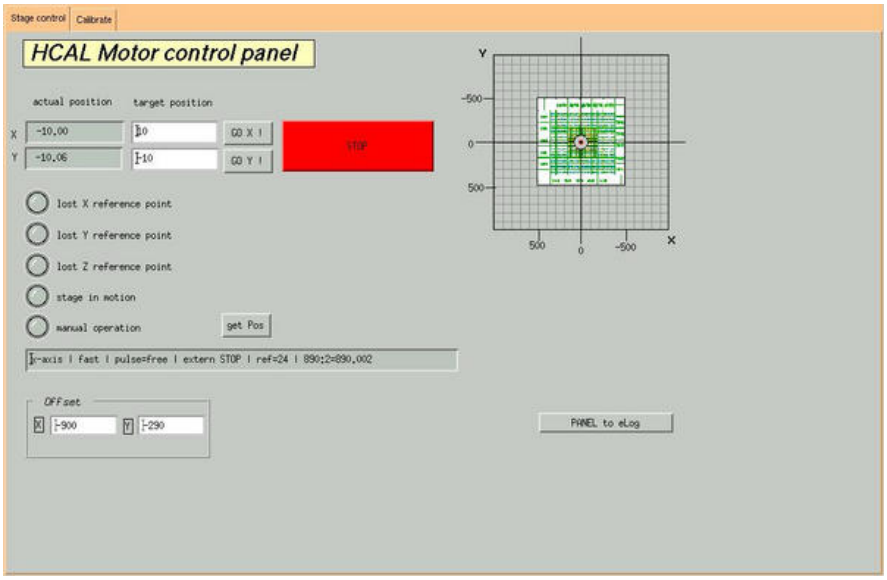
```
ECAL successfully aligned.
```



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/16.07/2007-07-16T03:49:19-03.jpg

2007-07-16 03:58 **new position**

(10,-10) corresponds to the ECAL center



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/16.07/2007-07-16T03:58:02-00.jpg

2007-07-16 04:47 Beni **changed to muons**

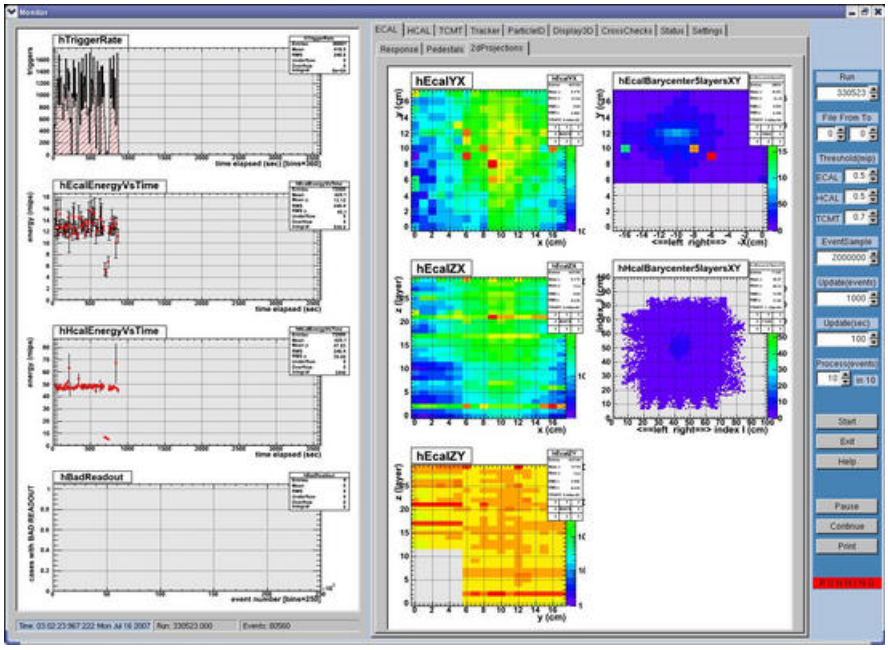
Following actions were performed to switch to muon data taking mode:
- raise & connect front 100x100 scintillator
- change AHC.cfg link to AHC_CERN07_beamhold_100x100.cfg
- change in EmcConfiguration.hh sequenceDelay to 1
- new beamsettings: file 555, absorber & target = air
- adjusted collimator settings to 10k events in 100x100 coincidence COLL02=COLL03=(-4;4) COLL05=COLL06=(-20,20)

- left beamdump closed

2007-07-16 05:06 Beni/Valeria **muon run data quality**

We looked up in the 3 dim display that the run is with muons and it fills nicely the HCAL (defocussed muons.)

The 2 dim display of the ECAL is attached.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/16.07/2007-07-16T05:06:23-00.jpg

2007-07-16 05:09 Oliver/Hakan/Valeri **muon run**

330523	beamData	100x100	-80GeV	mu-	555	air	air	1.34	0,0	split beam run in 250k events enabled
330524	beamData	100x100	-80GeV	mu-	555	air	air	1.34	0,0	split beam run in 250k events enabled
330525	beamData	100x100	-80GeV	mu-	555	air	air	1.34	0,0	split beam run in 250k events enabled
330526	beamData	100x100	-80GeV	mu-	555	air	air	1.34	0,0	split beam run in 250k events enabled
330527	beamData	100x100	-80GeV	mu-	555	air	air	1.34	0,0	split beam run in 250k events enabled

2007-07-16 08:34 Allister, Imad **new shift**

New shift!

2007-07-16 08:35 Allister, Imad **muon run**

330528	beamData	100x100	-80GeV	mu-	555	air	air	1.3552	0,0	split beam run in 250k events enabled
330529	beamData	100x100	-80GeV	mu-	555	air	air	1.3552	0,0	split beam run in 250k events enabled, not

										completed since there's no beam

Beam stopped at ~09:30, event 42995 of run 330529.

2007-07-16 11:03 Allister, Imad **calibration runs**

330530	ahcGain		
330531	ahcCmNoise	-e 10000	actually reached more than 100Kevts since the "split beamRun" flag wasn't turned off
330532	ahcPmNoise	-e 10000	
330533	ahcCmLedVcalibScan		

2007-07-16 12:00 Allister, Imad **muon run**

330534	beamData	100x100	-80GeV	mu-	555	air	air	1.3613	0,0

stopped at 19Kevts due to beam preparation

2007-07-16 12:02 Allister, Imad **calibration runs**

330535	ahcPmLedVcalibScan		
330536	ahcPmNoise	-e 50000	
330537	ahcGain		

While waiting for the beam, more calibration runs! ;^)

2007-07-16 14:25 Allister, Imad **muon run**

330538	beamData	100x100	-80GeV	mu-	555	air	air	0.09	0,0

split beamRun in 250kEvts, but beam stopped at 219Kevts

2007-07-16 14:30 Allister, Imad **new beam files**

Edda Gschwendtner created new beam files:
- H6B.515, -35GeV beam (but she said the quality is not so good)
- H6B.518, -45GeV beam

2007-07-16 15:14 Allister, Imad **calibration runs**

330539	ahcGain

2007-07-16 15:41 Allister, Imad **muon run**

330540	beamData	100x100	-80GeV	mu-	555	air	air	0.09	0,0

Split beamRun in 250kEvts

2007-07-16 16:28 Manqi, Wanbiao, Nanda **muon run**

330541	beamData	100x100	-80GeV	mu-	555	air	air	0.09	0,0	200kEvts

2007-07-16 17:12 Manqi, Wanbiao, Nanda **remove muon trigger**

removed the first 1x1m trigger (in front of ECAL and HCAL) from the beamline

2007-07-16 17:31 Beni **switched DAQ to 10x10 trigger**

DAQ setup for 10x10 trigger
- changed AHC.cfg link to AHC_CERN07_beamhold_10x10.cfg
- changed sequenceDelay in calice00:EmcConfiguration.hh to 13
- build runner on calice00
- DAQ shutDown and startUp

2007-07-16 17:34 Manqi, Wanbiao, Nanda **gain run**

330453	ahcGain					

2007-07-16 18:02 Manqi, Wanbiao, Nanda **testing new beam file**

330544	beamData	10x10	-45GeV	pi-	518	air	air	0.09	0,0	beamtune
330545	beamData	10x10	-45GeV	pi-	518	4mm Pb	air	0.09	0,0	beamtune

330546	beamData	10x10	-45GeV	pi-	518	4mm Pb	air	0.09	0,0	beamtune
330547	beamData	10x10	-45GeV	pi-	518	4mm Pb	air	0.09	0,0	beamtune
330548	beamData	10x10	-45GeV	pi-	518	4mm Pb	air	0.09	0,0	beamtune
330549	beamData	10x10	-45GeV	pi-	518	4mm Pb	air	0.09	0,0	beamtune
330550	beamData	10x10	-45GeV	pi-	518	4mm Pb	air	0.09	0,0	250 kevt

testing Eddas new beam files
see double peak in DC, two types of particles?
330545
double structure vanished, now move beam to centre of DC -> change trim06 -7.5 to -3.5A
330546
better, but change trim06 further to 1.0A
330547
still not centred -> change trim06 to 3.0A
330548
change tim06 to 8.0A
330549
change trim06 to 15.0A
330550
10x10 trigger rate: 1.5 kpps
DAQ rate: 62 Hz

open collimator 2,3,8 to -8 after 97000 evt.
too much, go back to -6.0 after 100.000 evt.
now we get 7 kpps in the 10x10 coincidence
and 64 Hz in the DAQ

2007-07-16 19:21 Manqi, Wanbiao, Nanda **testing new beam file**

330551	beamData	10x10	-35GeV	pi-	515	4m Pb	air	0.09	0,0	255 kevt

testing Eddas new beam files II. already opened collimator 2,3&8 to -10
looks good, just leave it running.
10x10 trigger coincidence: 8.2 kpps
DAQ rate: 90 Hz

2007-07-16 20:05 Manqi, Wanbiao, Nanda **calibration runs**

330552	ahcCmNoise					-e 20000
330553	ahcPmNoise					-e 20000
330554	ahcCmLedVcalibScan					
330555	ahcPmLedVcalibScan					
330556	ahcGain					

2007-07-16 20:38 Manqi, Wanbiao, Nanda **Gaussian Fit for Current Pion Runs**

By performing a Gaussian fit to the main energy peak in HCAL we extract the following values:

Beam Energy (GeV)	Run Num	Mean E (MIP)	Sigma (MIP)	Sigma/E
-100	330434	2303	177	7.7%
-80	330435	1875	151	8.1%
-50	330436	1218	104	8.5%
-40	330437	986	91	9.2%
-40	330440	999	87	8.7%
-50	330448	1220	97	8.0%
-80	330449	1891	131	7.0%
-100	330451	2294	165	7.2%
-40	330511	935	88	9.4%
-50	330516	1121	120	10.7%
-80	330519	1732	167	9.6%

2007-07-16 21:15 Manqi, Wanbiao, Nanda **pion run**

330557	beamData	10x10	-35GeV	pi-	515	4m Pb	air	0.09	0,0	243 kevt

10x10 trigger coincidence: 8.2 kpps
DAQ rate: 85 Hz

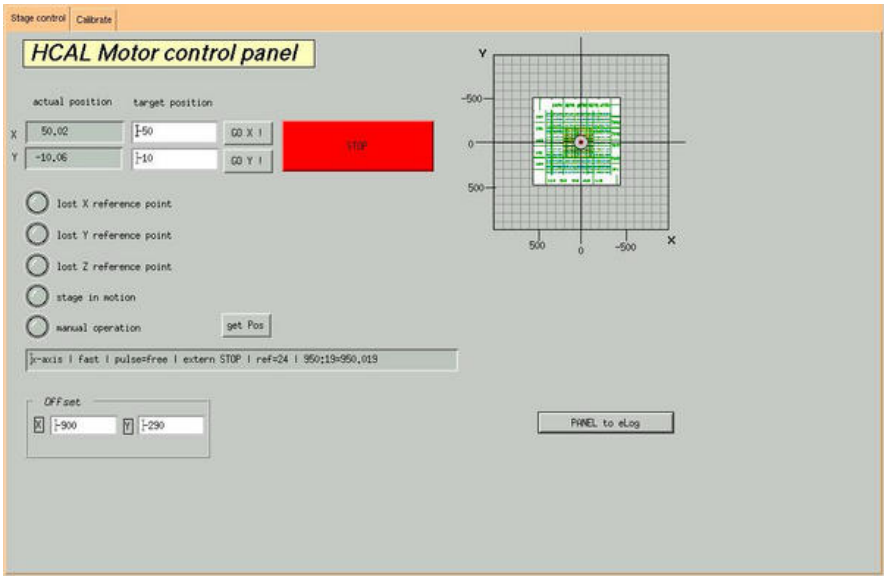
2007-07-16 21:56 Manqi, Wanbiao, Nanda **Gaussian Fit for Current electron Runs**

By performing a Gaussian fit to the main energy peak in ECAL

Beam Energy (GeV)	Run Num	Mean E (MIP)	Sigma (MIP)	Sigma/E
-50	330470	5850	274	4.7%
-40	330471	4750	237	5.0%
-30	330474	3600	208	5.8%
-25	330475	3074	179	5.8%
-15	330482	1901	133	7.0%

2007-07-16 22:10 **new position**

moved stage 6cm in direction of Saleve, ECAL was moved 6cm in opposite direction to compensate the stage movement



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/16.07/2007-07-16T22:10:02-00.jpg

2007-07-16 22:14 Manqi, Wanbiao, Nanda **pion run**

330558	beamData	10x10	-50GeV	pi-	512	4m Pb	air	0.09	-6,0	211 kevt

test new stage position:
ECAL centred and HCAL 6cm off towards Saleve

10x10 trigger coincidence: 7.3 kpps
DAQ rate: 90 Hz

2007-07-16 22:30 Beni **high trigger rate**

The very high trigger rate comes from an increased rate on our target T4. Called the control room. They are optimizing losses and promised to reduce the rate on the target.

2007-07-16 23:00 Manqi, Wanbiao, Nanda **pion run**

330559	beamData	10x10	-45GeV	pi-	518	4m Pb	air	0.09	-6,0	200 kevt

10x10 trigger coincidence: 6.8 kpps
DAQ rate: 80 Hz

2007-07-16 23:41 Manqi, Wanbiao, Nanda **pion run**

330560	beamData	10x10	-40GeV	pi-	514	4m Pb	air	0.09	-6,0	200k events

Very high trigger rate (125 kpps)!
-> had to close collimator 1,5,6 to 5
collimator 10,11 to 10.
Now 10x10 trigger coincidence: 9.5 kpps
DAQ rate: 100 Hz

2007-07-17 00:22 Hakan/Oliver/George **pi, 35GeV**

330561	beamData	10x10	-35GeV	pi-	515	4mm	Air	N/A	-6,0	9.4k

						Pb				spill rate,210k events

2007-07-17 01:21	Hakan/Oliver/Georgi	**Noise Runs**
330562		ahcCmNoise
330563		ahcPmNoise
330564		ahcCmLedVcalibScan
330565		ahcPmLedVcalibScan
330566		ahcGain
330567		ahcCmNoise
330568		ahcPmNoise

2007-07-17 02:22	Hakan/Oliver/Georgi			**pi- 35 GeV**						
330569	beamData	10x10	-35GeV	pi-	515	4mm Pb	Air	N/A	-6,0	9k spill rate,200k events

2007-07-17 02:57	Hakan/Oliver/Georgi			**pi- 40 GeV**						
330570	beamData	10x10	-40GeV	pi-	514	4mm Pb	Air	N/A	-6,0	9.6K spill rate,220k events

2007-07-17 03:39	Hakan/Oliver/Georgi			**pi- 45**						
330571	beamData	10x10	-45GeV	pi-	518	4mm Pb	Air	N/A	-6,0	8.2k spill rate,200k events

2007-07-17 04:24	Hakan/Oliver/Georgi			**pi- 50 GeV**						
330572	beamData	10x10	-50GeV	pi-	512	4mm Pb	Air	N/A	-6,0	6.4k spill rate,200k events

2007-07-17 05:12	Hakan/Oliver/Georgi	**Noise Runs**
330573		ahcCmNoise
330574		ahcPmNoise
330575		ahcCmLedVcalibScan
330576		ahcPmLedVcalibScan
330577		ahcGain

2007-07-17 06:19	Hakan/Oliver/Georgi			**pi- 80GeV**						
330578	beamData	10x10	-80GeV	pi-	510	4mm Pb	Air	N/A	-6,0	beamtune, 10k events
330579	beamData	10x10	-80GeV	pi-	510	4mm Pb	Air	N/A	-6,0	Spill rate 7k260k events

Spill rate was too high, so set collimators 2, 3 and 8 from +/- 2.0mm to +/- 1.5mm.
DCs not aligned with beam, changing TRIM06 current from -13.3A to -7.0A.
330579-> Is aligned now.

2007-07-17 07:18	Hakan/Oliver/Georgi			**pi- 100 GeV**						
330580	beamData	10x10	-100GeV	pi-	516	4mm Pb	Air	N/A	-6,0	beamtune, spill rate 6.5k
330581	beamData	10x10	-100GeV	pi-	516	4mm Pb	Air	N/A	-6,0	beamtune, spill rate 6.5k
330582	beamData	10x10	-100GeV	pi-	516	4mm Pb	Air	N/A	-6,0	spill rate 6.5k

330583	beamData	10x10	-100GeV	pi-	516	4mm Pb	Air	N/A	-6,0	spill rate 6.5k

DCs offset, changed TRIM06 from -16.7A to -10.0A
Still offset, changing to -8.0A
DCs aligned. Beam stopped for several minutes; will continue taking remaining events when it's back

2007-07-17 10:16 Allister, Imad, Beni **pion run**

330589	beamData	10x10	-50GeV	pi-	512	4mmPb	air	n/a	+6,0	test new position (ok!), 352kEvts
330590	beamData	10x10	-35GeV	pi-	515	4mmPb	air	n/a	+6,0	250kEvts

2007-07-17 12:13 Allister, Imad, Beni **40 GeV pions**

330591	beamData	10x10	-40GeV	pi-	514	4mm Pb	air	N/A	+6,0	255kEvts

Changed COLL01 to (-8;8) to reduce rate to 10k per spill. Saved this change to beam-file.

2007-07-17 12:57 Allister, Imad, Beni **45 GeV pions**

330592	beamData	10x10	-45GeV	pi-	518	4mm Pb	air	N/A	+6,0	245kEvts

2007-07-17 13:55 Allister, Imad, Beni **calibration runs**

330593	ahcGain
330594	junk run

2007-07-17 14:26 Beni **35 GeV pion**

330595	beamData	10x10	-35GeV	pi-	515	4mm Pb	air	N/A	+6,0	17k short CMB test run
330596	beamData	10x10	-35GeV	pi-	515	4mm Pb	air	N/A	+6,0	252kEvts

This run was taken directly after the ahcGain run 330593.
Some CMBs are missing in the online monitoring.
Performed manual re-init, and status check of CMBs.
330596
no change of the CMB situatuion

2007-07-17 15:40 Allister, Imad, Beni **pion run, CMB check**

330598	beamData	10x10	-35GeV	pi-	515	4mm Pb	air	N/A	+6,0	21kEvts

just to check if there's a change in hHcalLedPerLayer. no change found.

2007-07-17 16:41 Nanda/Manqi/Valeria **pion run**

330600	beamData	10x10	-40GeV	pi-	514	4mm Pb	air	N/A	+6,0	250 kevt

trigger rate: 100 kpps
=> close collimators, done by Fabrizio

all collimators set to 5

trigger rate now: 8.3 kpps
DAQ rate: 90 Hz

2007-07-17 17:47 Valeria, Manqi, Nanda **calibration data**

330601	ahcCmNoise
330602	ahcPmNoise

2007-07-17 17:54 Valeria, Manqi, Nanda **pion run**

330603	beamData	10x10	-45GeV	pi-	518	4mm Pb	air	N/A	+6,0	250 kevt

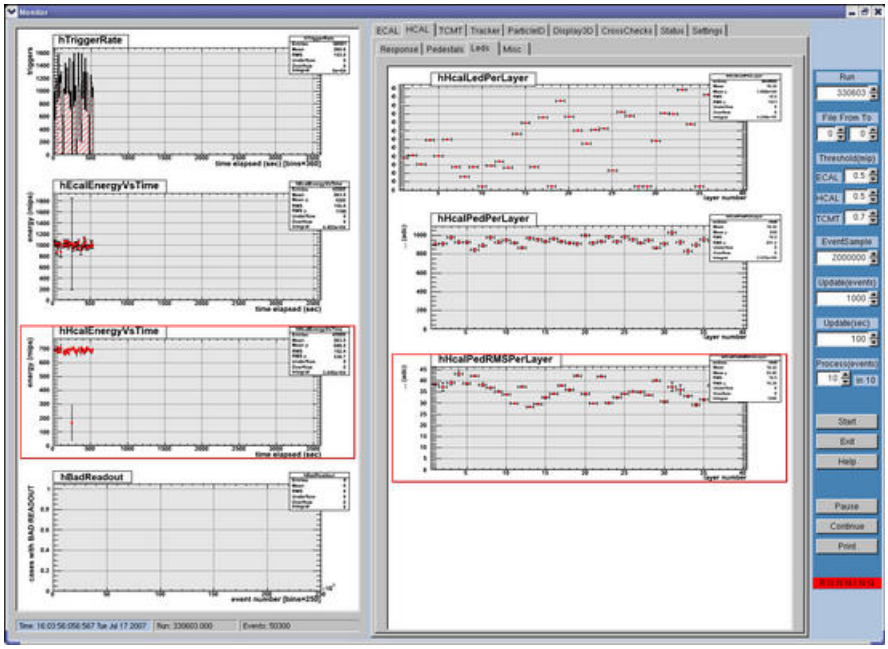
trigger: 8.2kpps
DAQ rate: 69Hz

2007-07-17 17:59 Valeria, Manqi, Nanda **LED check**

adjusted VCalib settings in AHC.cfg:

layer	before	after
38	28000	33000
37	28000	33000
36	28000	33000
35	36000	40000
34	28000	33000
33	27000	33000
29	30500	33000
28	30500	33000
20	28500	33000
19	28000	33000
18	32000	35000
17	28000	33000
16	43000	46000
15	28000	33000
14	28000	33000
10	44000	46000
6	42000	46000
5	43000	46000
4	42000	46000
3	43500	46000
1	43000	46000

performed DAQ shutDown, DAQ startUp, CMB manual re-init & CMB check.
Now (online monitoring of Run330603)it looks much better!
But we still don't see licht in layers 10,18,28,29,35



File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/17.07/2007-07-17T17:59:47-02.png

2007-07-17 18:43 Nanda/Manqi/Valeria **pion run**

330604	beamData	10x10	-50GeV	pi-	512	4mm Pb	air	N/A	250 kevt

trigger: 6.5kpps
DAQ rate: 80Hz

2007-07-17 19:30 Nanda/Manqi/Valeria **pion run**

330605	beamData	10x10	-80GeV	pi-	510	4mm Pb	air	N/A	+6,0	250 kevt

collimator C10 from 4 to 3
trigger rate: 10kpps
DAQ rate: 90 Hz

2007-07-17 20:29 Valeria, Manqi, Nanda **pion run**

330606	beamData	10x10	-100GeV	pi-	516	4mm Pb	air	N/a	+6,0	250 kevt

trigger: 4.3kpps
DAQ rate: 85Hz

2007-07-17 21:16 Nanda/Manqi/Valeria **calibration runs**

330607	ahcGain	
330608	ahcCmNoise	-e 20.000
330609	ahcPmNoise	-e 20.000
330610	ahcCmLedVcalibScan	
330611	ahcPmLedVcalibScan	

2007-07-17 22:04 Valeria, Manqi, Nanda **pion run**

330612	beamData	10x10	-100GeV	pi-	516	4mm Pb	air	N/a	+6,0	250 kevt

trigger: 4.3kpps
DAQ rate: 85Hz

2007-07-17 22:54 Valeria, Manqi, Nanda **Guassian Fit for Pion run 330583-330612**

Run No.	E(GeV)	Mean(mips)	Sigma(mips)	Sigma/Mean(%)
330583	100	2198	162	7.4
330589	50	1158	94.3	8.1
330590	35	816	82.4	10.1
330591	40	920	87.2	9.5
330592	45	1031	93.9	9.1
330596	35	815	83.6	10.3
330600	40	920	87.4	9.5
330603	45	1024	93.4	9.1
330604	50	1147	94.7	8.3
330605	80	1774	130.8	7.4
330606	100	2175	155.6	7.2
330612	100	2176	151.7	7.0
330613	80	1764	132	7.5

Run 330613 has only 80k events. After it we move the stage

2007-07-17 22:54 Nanda/Manqi/Valeria **pion run**

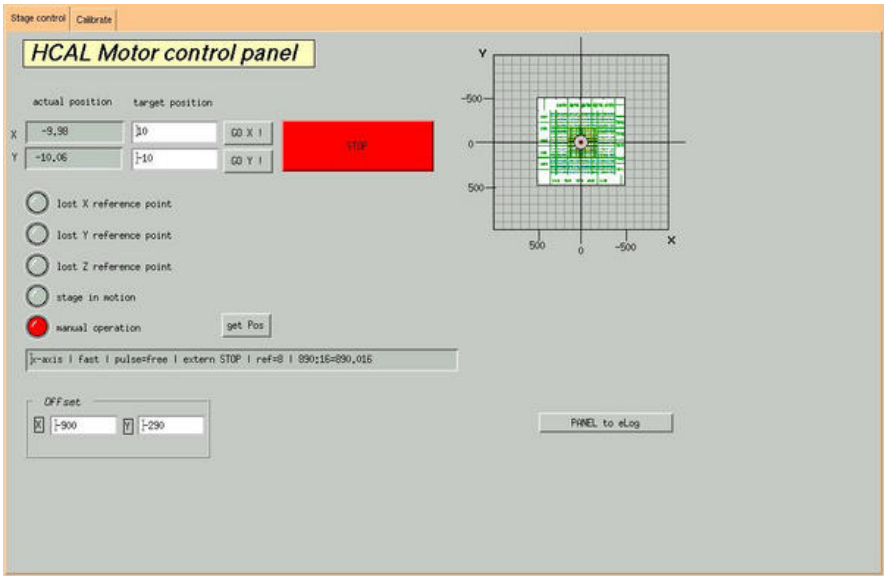
330613	beamData	10x10	-80GeV	pi-	510	4mm Pb	air	N/A	+6,0	87 kevt

collimator C10 from 4 to 3
trigger rate: 8kpps
DAQ rate: 90 Hz

2007-07-17 23:31 caliceon@calicehcal02.cern.ch **absorber stage** (CALICE user)

Go back to muons:
• HCAL & ECAL back to center of beam
• moved 1x1m trigger back into the beamline
• changed AHC.cfg file link to AHC_CERN07_beamhold_100x100.cfg
• change in EmcConfiguration.hh sequenceDelay to 1
• new beamsettings: file 555, absorber & target = air
• adjusted collimator settings to 14k events in 100x100 coincidence COLL01=(-20;20) COLL05=COLL06=(-15;15)

• left beamdump closed

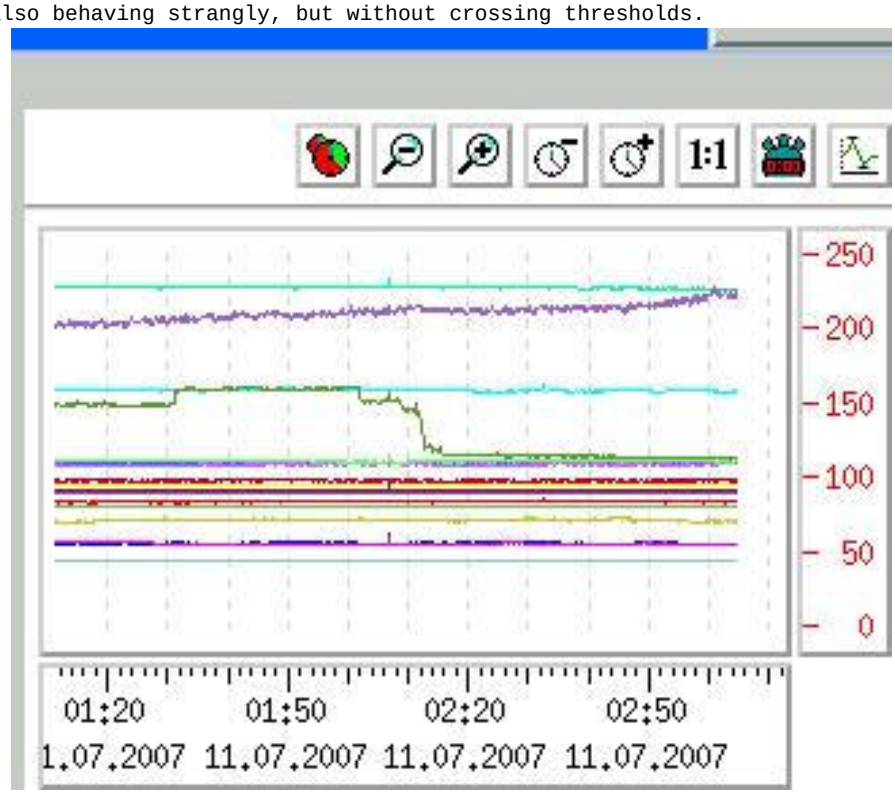


File: http://ttfinfo.desy.de/CALICEelog/data/2007/29/17.07/2007-07-17T23:31:02-00.jpg

2007-07-11 03:12 Trygve **HCAL high current**

Channel 74 (purple) slightly high. Trend plot shows it has been increasing steadily lately.

Channel 73 is also behaving strangly, but without crossing thresholds.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/11.07/2007-07-11T03:12:43-00.jpg

2007-07-11 04:41 Roman **More files deleted from data01**

I have removed files of runs 220000-220238 from data01/data/debmJan06/run .

Looks like these are files of runs taken while testing the hcal modules.

All the files are present in the desy dcache.

This freed ~ 170 GByte.
Remaining Free Space ~590 GByte.

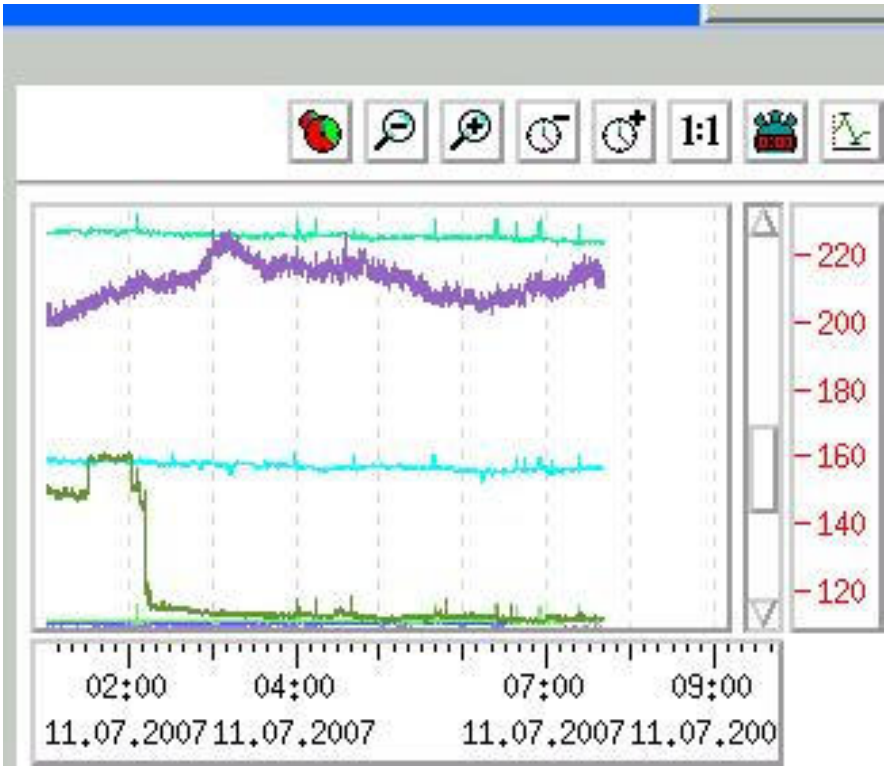
2007-07-11 05:45 Kurt **TCMT update**

New DAC files (DAC_tcmt1_11072007.dat and DAC_tcmt2_11072007.dat) uploaded to calice00 and links (DAC_tcmt1.dat and DAC_tcmt2.dat) updated. DAC settings were increased by ~0.1mV for approximately
30 SiPMs.

Values should take effect on next DAQ shutdown and startup.

2007-07-11 07:30 Trygve **HCAL Channels 73 and 74**

Channel 73 (green) seems now to be stable. Channel 74 is still going up and down, but the current has been below threshold most of the time.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/11.07/2007-07-11T07:30:07-00.jpg

2007-07-11 07:54 Trygve

New DAQ files for TCMT loaded. Making some calibration runs

330349	ahcPmNoise	10k
330349	ahcCmNoise	10k
330351	ahcPmLed	10k
330352	ahcCmLed	10k
330353	ahcGain	Stopped after 10k events
330354	ahcGain	
330355	ahcPmLedVcalibScan	

2007-07-11 08:40 Trygve

Machine day started. No beam. ECAL safety run until experts come...

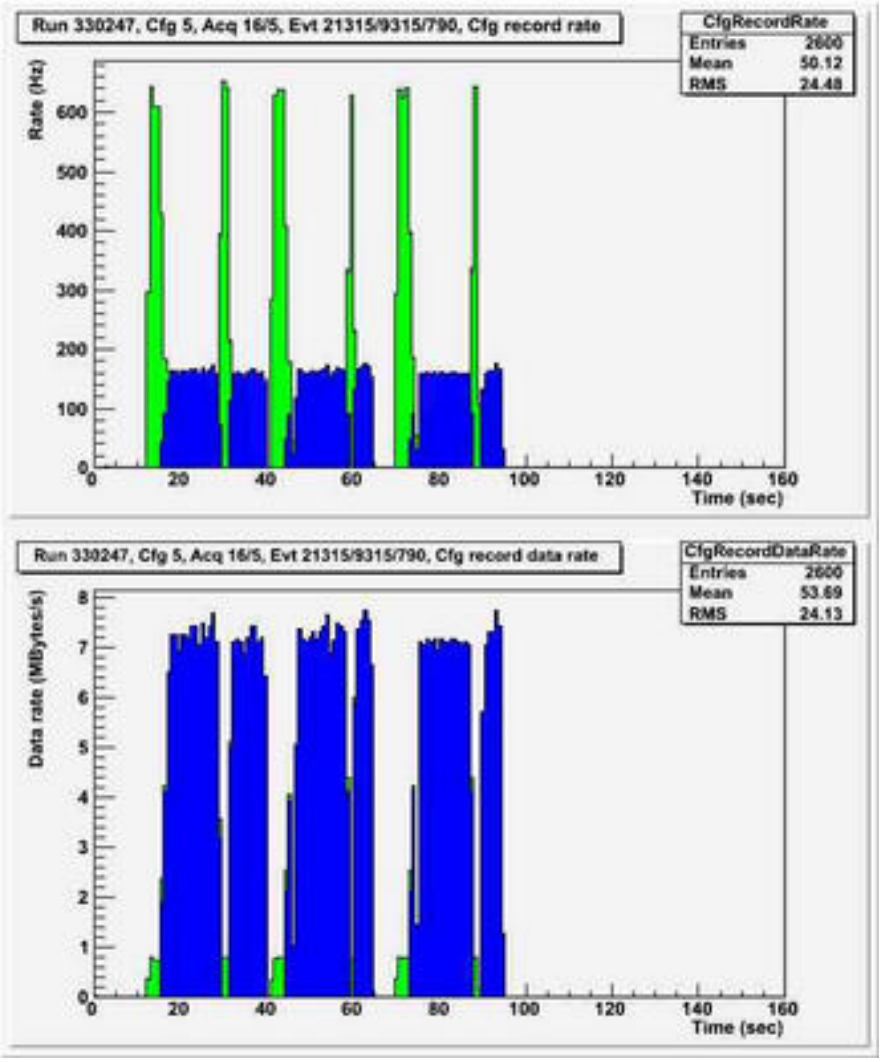
2007-07-12 11:30 PaulD **In-spill buffer limit reduced: 2000 -> 1800**

The figure shows an example high beam intensity run 330247.
This is one of the beam data configurations (i.e. not pedestal
or LED periods). Green is triggers (which only occur during
spills) and blue is event readout (which can be within and outside
spills).

There is a clear alternating structure, caused by taking more
triggers within a spill than can be read out before the next spill.
Hence, the first event readout period eats into the time of the
second spill, causing it to be short and hence have a lower number
of events. The third spill does the same to the fourth, etc. This
reduces the overall average rate significantly; the gaps show the
full possible bandwidth is not being used.

By limiting the number of events buffered per spill, then this
alternating structure can be smoothed out. Paradoxically, by
limiting to a lower number of events in a spill, the average rate
should be increased.

I have changed the buffer limit from 2000 to 1800 events. Note,
this is not the absolute limit of the number of triggers per
spill; it is the limit on the number which are buffered (and hence
need to be read after the spill).



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/12.07/2007-07-12T11:30:45-00.jpg

2007-07-12 12:50 Beni **HCAL switched off**

For the debugging of one ADC-line/ASIC in module 1 the HCAL (ASICs & CMB) was switched off.

2007-07-12 12:58 Marcel **power cables changed**

changed power cables for bottom layers 16 and 17.
Noise for buttom layer 17 dropped from 12 to 10 ADC.
ECAL turned off after tests.

2007-07-12 13:10 Marcel **ECAL stage position wrong**

The display in the stage control program shows X=4950, while the ruler says X=4750.
Apparently the control program has been restarted without having edited the config file.
This last movement seems not to be recorded in the e-log.

2007-07-12 13:30 Beni **HCAL powered up again**

LV on
HV on
CMB on

2007-07-12 13:36 Beni **slot 7 FE 6 is bad**

CHANGE IN HCAL MAPPING (AHC.cfg)

The bad read chip in module 1 could be a broken FE.

slot 7 FE 6 (SER008) shows too high noise on one ADC channel without anything connected to it. Also the noise of another ADC seemed to low.

I moved module 1 to slot 12 7. Unfortunately the CMB doesn't work on this module. Therfore, we have to wait for beam data before we can be sure.

2007-07-12 16:25 Nanda, Tao, Marie-Cruz **start up**

Searched and closed area H6a and H6b.
Power up ECAL, HCAL, TCMT & CMBs.
Expect beam back in 5 minutes.

2007-07-12 16:59 Erika **DAQ problems**

Communication to ECAL stage control laptop failed again!!!
Removed it from the DAQ socketing

2007-07-12 17:02 Marie-Cruz, Tao, Nanda **calibration runs**

330362	ahcPmLedVc	alibScan							
330363	ahcCmLedVc	alibScan							
330364	ahcGain								
330365	ahcCmNoise	-e 20000							
330366	ahcPmNoise	-e 20000							
330367	ahcCmLedVc	alibScan							
330368	ahcPmLedVc	alibScan							

still no beam, so checking CMBs with LED light
found dead CMBs in slot/FE/module: 15/3/20, 17/5/12, 5/5/34, 7/4/2, 12/7/1

2007-07-12 19:54 Marie-Cruz, Tao, Nanda **beam tuning**

330369	beamData	10x10	-25GeV	e-	535	air	6mm Pb	2.887	0,0	34kev, beam gone -> junk run
330370	beamData	10x10	-25GeV	e-	535	air	6mm Pb	2.887	0,0	25kev, stopped to move beam to the center
330371	beamData	10x10	-25GeV	e-	535	air	6mm Pb	2.887	0,0	22kev, stopped to move ECAL back to center

1800 pps in 10x10 trigger coincidence
DAQ rate: 75 Hz

Finally beam is back!
Started beam tuning

2007-07-12 20:29 Fab/Marcel/Roman **Ecal Stage Moved**

THe Ecal stage has been moved using *local control* to
49.5 cm, i.e. centered on the beam,

Fab/Marcel/Roman

Please leve it untouched, unless there is a specific reason to do it.
Please always document any changes of the ECAL position on the elog.

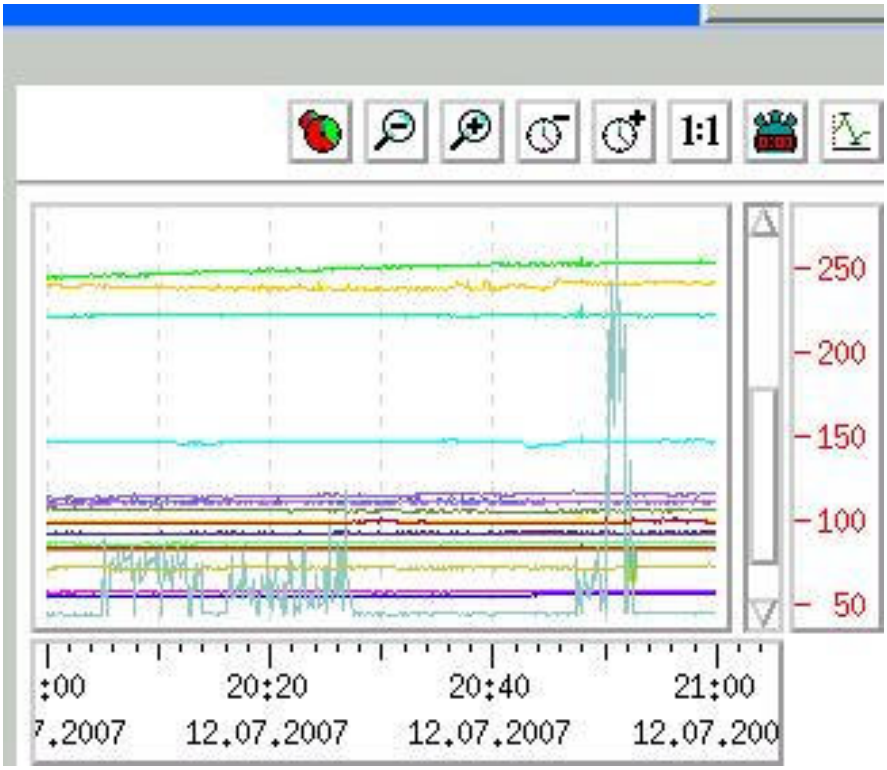
2007-07-12 20:35 Marie-Cruz, Tao, Nanda **beam tuning**

330372	beamData	10x10	-25GeV	e-	535	air	6mm Pb	2.887	0,0	check ECAL position

ECAL back to centre of beam :)
1800 pps in 10x10 trigger coincidence
DAQ rate: 60 Hz

2007-07-12 20:55 caliceon@calicehost02.cern.ch (CALICE user) **high current**

Very high current spikes in HV channel 77 = TCMT 1
HV is instable, too



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/12.07/2007-07-12T20:55:01-00.jpg

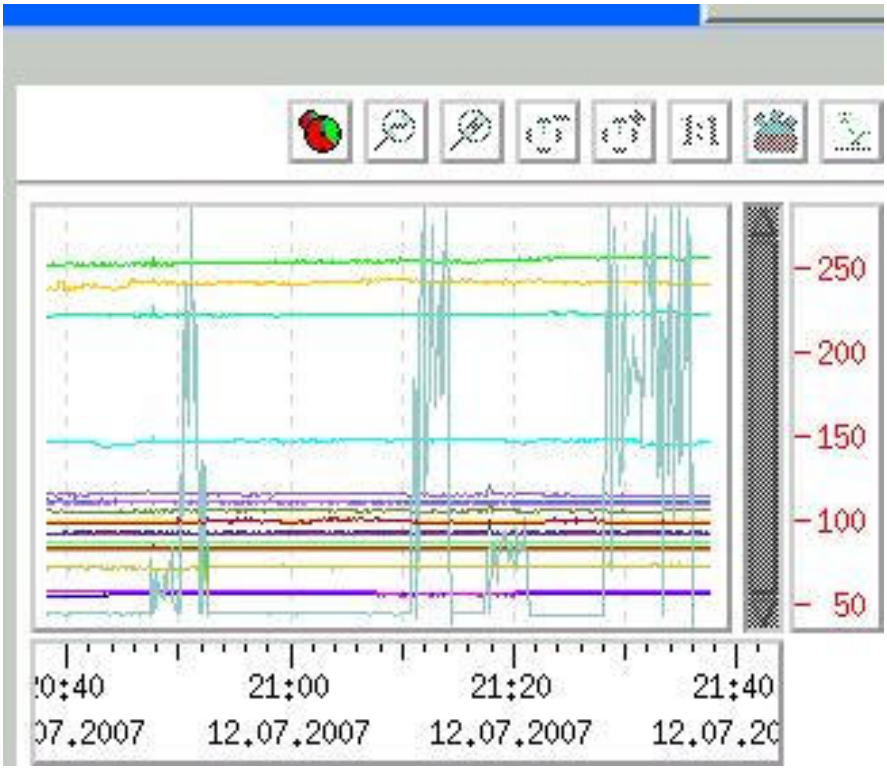
2007-07-12 20:58 Marie-Cruz, Tao, Nanda **beam tuning**

330374	beamData	10x10	-15GeV	e-	536	air	6mm Pb	2.887	0,0	looks crap
330375	beamData	10x10	-15GeV	e-	536	air	6mm Pb	2.887	0,0	also looks crap
330376	beamData	10x10	-15GeV	e-	536	air	6mm Pb	2.887	0,0	seems okay

530 pps in 10x10 trigger coincidence
DAQ rate: 30 Hz

2007-07-12 21:26 caliceon@calicehostname.cern.ch (CALICE user) **switched off TCMT1**

since HV channel 77 continued with very high current (up to 300 uA) we switched it off.
Expert intervention is needed to check VFE electronics



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/12.07/2007-07-12T21:26:02-00.jpg

2007-07-12 21:34 Marie-Cruz, Tao, Nanda **electron run**

330377	beamData	10x10	-15GeV	e-	536	air	6mm Pb	1.35	0,0	10 kev beam gone

600 pps in 10x10 trigger coincidence
DAQ rate: 40 Hz

2007-07-12 21:49 Marie-Cruz, Tao, Nanda **bugs**

Bug in online monitoring panel:
HCAL pedestals in slot 19 are overwriting the LED panel

Negative pedestalvalues for slot5 FE 7B = module 32

2007-07-12 21:55 Marie-Cruz, Tao, Nanda **electron run**

330378	beamData	10x10	-15GeV	e-	536	air	6mm Pb	1.35	0,0	62kev

Still bad beam conditions:
200pps in 10x10 trigger coincidence
DAQ rate: 20Hz

stopped to get an access in order to exchange a TCMT HAB

2007-07-12 22:48 Marie-Cruz, Tao, Nanda **key access**

stopped run and asked for a key access to exchange broken TCMT HAB.
Had to switch off HCAL & TCMT voltage.
ECAL is up, ECAL safety run is ongoing

2007-07-12 23:51 **New shift crew**

Valeria, Trygve, Hakan

2007-07-13 00:14 **Key access finished**

Key access finished. Powering up HCAL.

2007-07-13 00:16 Kurt, Sasha, Vishnu **TCMT ADJUSTMENT**

Replaced 6 HABs on TCMT-1 baseboard to correct problem with unstable current and voltage.

2007-07-13 00:23 Valeria/Hakan/Tryggve **run,15 GeV**

330380	beamData	10x10	-15GeV	e-	536	Air	6mm Pb	1.35 b	0,0	good for physics ~250k events

Fab: collimators c2, c3, c8 opened to allow more pps:
new settings: c2 = c3 = c8 = -/+ 8 (J1/2)

2007-07-13 00:35 Fab **TCMT 1 unstable**

An intervention was needed this afternoon to look at an unstable channel in the TCMT (TCMT 1) - see previous entry by Kurt.

Things to do when on shift: monitor the current in TCMT 1; is corrent flactuates +/- 10 around the reference value (46 uA), just note it in the elog (+paper log), but do not act. If fluctuation is above these limits, turn channel off from slow control panel (go from HV main to HV 61-80 and click button 'off' corresponding to TCMT 1 - channel 77/39A). If there is a sudden jump of the current to > 100uA, switch off TCMT 1 immediately.

Please note: intervene on this particular channel only if it is the only one that flactuates (i.e. goes from green to red); if most of channels flactuate, just stop run and reload HCAL settings. Once the setting have been reloaded and the panel is back to being green, then re-start the run.

2007-07-13 01:32 Hakan/Valeria/Tryggve **run,20 GeV**

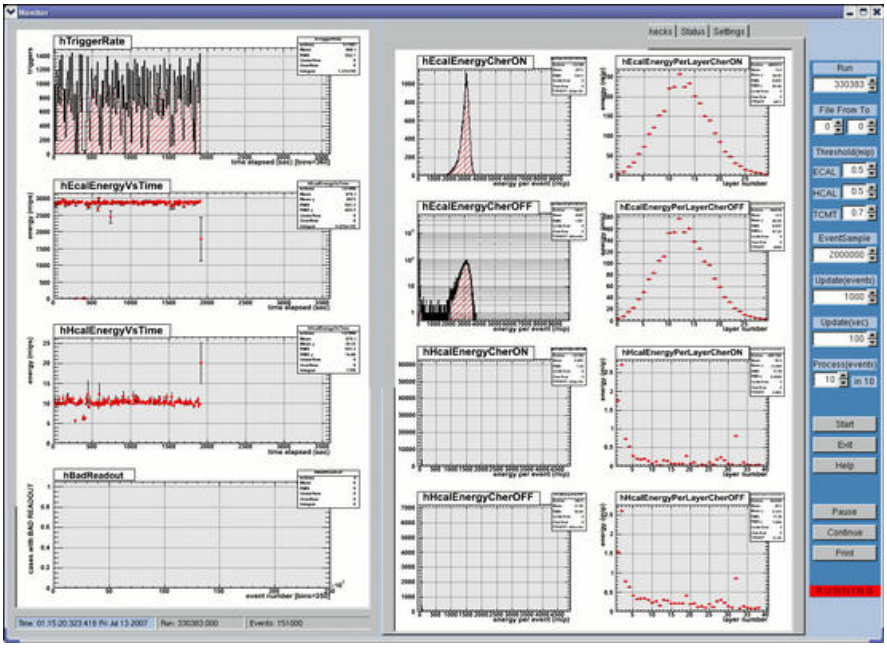
330381	beamData	10x10	-20GeV	e-	533	Air	6mm Pb	0.76	0,0	Cherenkov pressure set but not yet stable, 30k events
330382	beamData	10x10	-20GeV	e-	533	Air	6mm Pb	0.76	0,0	Cherenkov pressure now stable, 250k events

2007-07-13 02:44 Hakan/Valeria/Tryggve **run,25 GeV**

330383	beamData	10x10	-25GeV	e-	535	Air	6mm Pb	0.5	0,0	250k events

TRIM06 off nominal value during first 5k events

Seems that there are lots of electrons in the Cherenkov filter



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/13.07/2007-07-13T02:44:06-02.gif

2007-07-13 03:43 Hakan/Valeria/Tryggve **e- run,30 GeV**

330384	beamData	10x10	-30GeV	e-	534	Air	6mm Pb	0.34	0,0	Run abandoned due to low rate
330385	beamData	10x10	-30GeV	e-	534	Air	6mm Pb	0.34	0,0	250k events

Collimators c2, c3, c8 set to +/- 7.0mm

2007-07-13 04:39 Hakan/Valeria/Tryggve **e- run,40 GeV**

330386	beamData	10x10	-40GeV	e-	531	Air	6mm Pb	0.1	0,0	250k events

Cherenkov not much use... Most of the events do no fire Cherenkov, but it looks like a pure electron beam anyway.

2007-07-13 05:32 Hakan/Valeria/Tryggve **e- run,50 GeV**

330387	beamData	10x10	-50GeV	e-	530	Air	6mm Pb	0.1	0,0	250k events

2007-07-13 06:27 Hakan/Valeria/Tryggve **Gain Run**

330388	ahcGain								

2007-07-13 06:29 Hakan/Valeria/Tryggve **pion run, 40GeV**

330389	beamData	10x10	-40GeV	pi-	514	4mm Pb	Air	N/A	0,0	Abandoned due to too high a rate
330390	beamData	10x10	-40GeV	pi-	514	4mm Pb	Air	N/A	0,0	250k events

Collimators c2, c3 and c8 set to +/- 1.5mm, 2.0mm and 2.0mm, respectively

2007-07-13 07:22 Hakan/Valeria/Tryggve **Summary of Electron Data (for this shift)**

By performing a Gaussian fit to the main energy peak in ECAL we extract the following values:

Beam Energy (GeV)	Mean E (MIP)	Sigma
-15	1914	142
-20	2513	159
-25	3067	194
-30	3699	208
-40	4732	258
-50	5826	316

Note: The distributions are quite far from being Gaussian since the tails on the low energy side are prominent. Thus the sigmas are not very reliable.

2007-07-13 07:44 Hakan/Valeria/Tryggve **pion run, 50 GeV**

330391	beamData	10x10	-50GeV	pi-	512	4mm Pb	Air	N/A	0,0	250k

2007-07-13 08:00 Manqi, Erika, Beni **shift start**

2007-07-13 08:57 Manqi, Beni **80 GeV pion**

330392	beamData	10x10	-80Gev	pi-	510	4mm Pb	Air	N/A	250k

2007-07-13 09:33 Manqi, Beni **100 GeV pion**

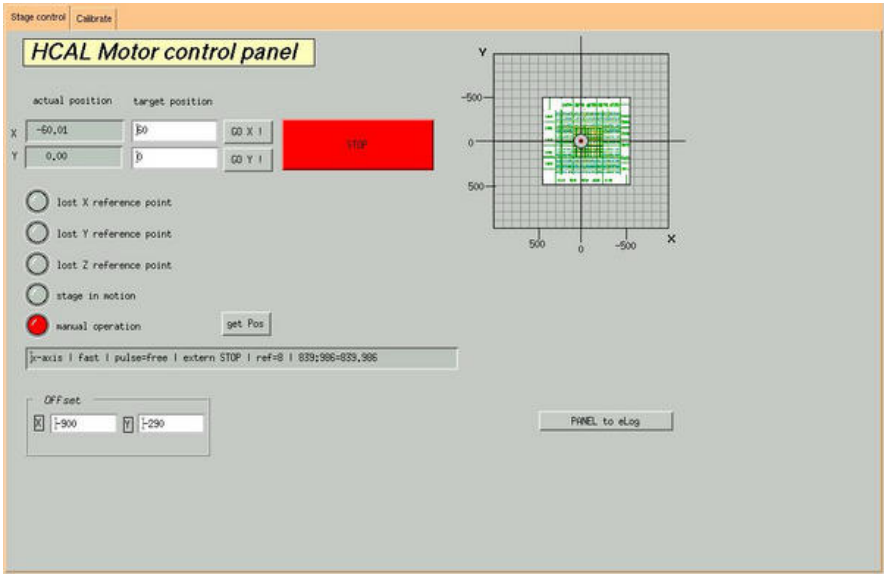
330393	beamData	10x10	-100GeV	pi-	516	4mm Pb	air	N/A	260k

2007-07-13 10:41 caliceon@calicehcal02.desy.ch **new position** (CALICE user)

Moved the stage position 6cm to Jura. (60;0 in the input mask. The read position shows a minus. It has to be crosschecked if this is intended)

This means that looking in the direction of the beam the detectors moved to the left. Therefore, the beam impact point looking on the front face of the decors moved to the right.

How this translates to your favorite coordinate system you have to figure out yourself.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/13.07/2007-07-13T10:41:02-00.jpg

2007-07-13 11:32 Beni **beam settings readout**

For runs 330393 and 330394 we tried to get the beam conditions into the readout. Some values were read back but then the runner crashed with an assertion.

Paul is informed.

2007-07-13 11:45 Manqi, Beni **100 GeV pion**

330395	beamData	10x10	-100GeV	pi-	516	4mm Pb	air	N/A	+6,0	250k

2007-07-13 12:19 Manqi, Beni **80GeV pion**

330396	beamData	10x10	-80GeV	pi-	510	4mm	air	N/A	+6,0	196k,

						Pb				changing beam conditions during run

run stopped, as there will be no beam for at least one hour

2007-07-13 13:27 Manqi, Beni **no beam**

Damper problem
access in BA2 , no beam
more news at 14:30

--- updates ---
[14:00] access in BA2 at 14:30 , no beam
more news at 15:00

2007-07-13 13:35 Manqi, Beni **calibration runs**

330397	ahcGain	spill sync off							
330399	ahcPmLedVcalibScan	spill sync off							
330400	ahcCmLedVcalibScan	spill sync off							
330401	ahcPmNoise	-e 50000 spill sync off							
330402	ahcCmNoise	-e 50000 spill sync off							

2007-07-13 14:08 Beni **DAQ speed test run**

330398	ahcGain								chunk

2007-07-13 14:18 Manqi, Beni **Gaussian Fit Result for Pion runs**

By performing a Gaussian fit to the main energy peak in HCAL we extract the following values:

Beam Energy (GeV)	Run Num	Mean E (MIP)	Sigma (MIP)	Sigma/E
-40	330390	1009	97	9.6%
-50	330391	1250	110	8.8%
-80	330392	1910	161	8.4%
-100	330393	2336	196	8.4%
-80	330395	1893	162	8.5%
-100	330396	2328	186	8.0%

stage shift after run 330393. For data file 330395 and 330396, the main peak is less significant comparing to 330393 and 330392

2007-07-13 15:01 Beni **CMB pickup noise / pedestal shift**

switched SiPM HV to 10.0V

330403	ahcGain	spill sync off						SiPM HV off, pickup noise / pedestal shift run

2007-07-13 15:42 Beni **PM LED holdscan**

There is still a mess in the AHC.cfg files VCALIB settings and for the holdvalues of the LED modes. We have a lot of missing PM holds.

330404	ahcPmLedHoldScan	spill sync off							stopped as VCALIB settings were wrong in AHC.cfg
330405	ahcPmLedHoldScan	spill sync off							

2007-07-13 16:02 Marie-Cruz, Tao, Nanda **pion run**

330406	beamData	10x10	-50GeV	pi-	512	4mm Pb	air	N/A	+6,0	~70kev junk

DAQ rate: 50 Hz
~1000 pps in 10x10 trigger coincidence, but not very stable

stage at 60,0
beam gone again, need another SPS access.
We will take some calibration data in the mean time.

2007-07-13 16:55 Marie-Cruz, Tao, Nanda **calibration runs**

330407	ahcPmLedVcalibScan					
330408	ahcCmLedVcalibScan					
330409	ahcGain					
330410	ahcCmNoise					

2007-07-13 18:15 PaulD **Beam line data**

The CERN beam line data have been changed this year and now no longer
include the "RP" values (which I think stands for "Radiation Protection").
This is why the DAQ data reader was not able to correctly parse the char
string sent. Sven and I were not told about this before now...

I have removed the section of code which interprets these data and the
interaction now seems fine. The RP values will now all be set to zero.
I will leave this enabled in the DAQ.

In case there are further problems, then to remove the beam data readout
from the DAQ, comment the line

```
//#define BML_SLOW_DATA // Gets beam information
```

in src/runnerDefine.icc on calice00 and recompile the DAQ, i.e.

```
> build runner
```

2007-07-13 18:30 Marie-Cruz, Tao, Nanda **pion run**

330411	beamData	10x10	-50GeV	pi-	512	4mm Pb	air	N/A	+6,0	250 kev.

DAQ rate: 70 Hz
~3000 pps in 10x10 trigger coincidence

stage at 60,0

Gaus fit in online monitoring panel:
mean = 2015 mip
sigma = 109 mip
-> sigma/mean = 5.4 %

2007-07-13 19:42 Marie-Cruz, Tao, Nanda **pion run**

330412	beamData	10x10	-40GeV	pi-	514	4mm Pb	air	N/A	+6,0	250 kev

DAQ rate: 80 Hz
~ 3700 pps in 10x10 trigger coincidence

stage at 60,0

Gaus fit in online monitoring panel:
mean = 986 mip
sigma = 91 mip
-> sigma/mean = 9.2 %

2007-07-13 20:47 Marie-Cruz, Tao, Nanda **electron run**

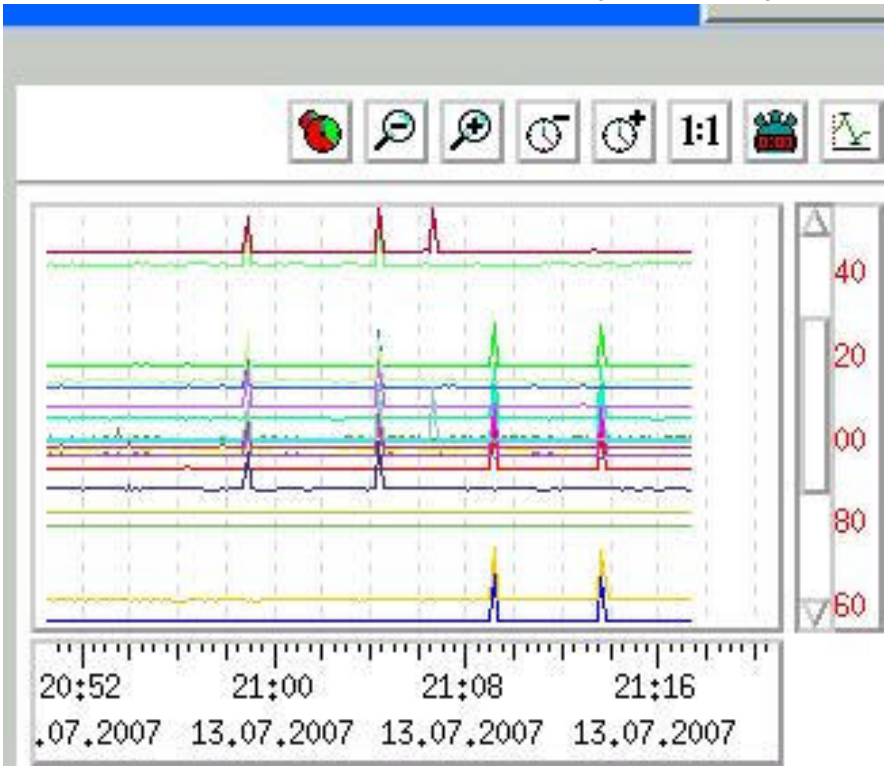
330413	beamData	10x10	-50GeV	e-	530	air	6mm Pb	0.1	+6,0	250 kev.

DAQ rate: 60 Hz
~ 3400 pps in 10x10 trigger coincidence

stage at 60,0

2007-07-13 21:07 caliceon@calicehcal02.desy.de **current peaks in HCAL**
(CALICE user)

HCAL currents have been instable for almost all channels during this evening



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/13.07/2007-07-13T21:07:02-00.jpg

2007-07-13 21:44 Marie-Cruz, Tao, Nanda

330415	beamData	10x10	-40GeV	e-	531	air	6mm Pb	0.1	+6,0
330417	beamData	10x10	-40GeV	e-	531	air	6mm Pb	0.1	+6,0

DAQ rate: 75 Hz
~ 4100 pps in 10x10 trigger coincidence

stage at 60,0

Do not see anything in the online monitoring!

-> Panic, close DAQ & start again

.*****

These two runs were taken with beamData -v 13, rather than -v 21 as probably intended. This can be easily verified using, e.g.

icalice00> example 330415

which prints out the DaqRunStart information. This means the trigger required only a single hit on input 13 rather than the 10x10 coincidence. I don't recall what input 13 is but I assume it is not beam-related, in which case no hits would have been seen.

Both runs are therefore junk.

I guess this happened because -v 13 is the default. I have just recompiled runStart to have -v 21 as the default so this should not happen again.
PaulD

2007-07-13 22:13 Marie-Cruz, Tao, Nanda

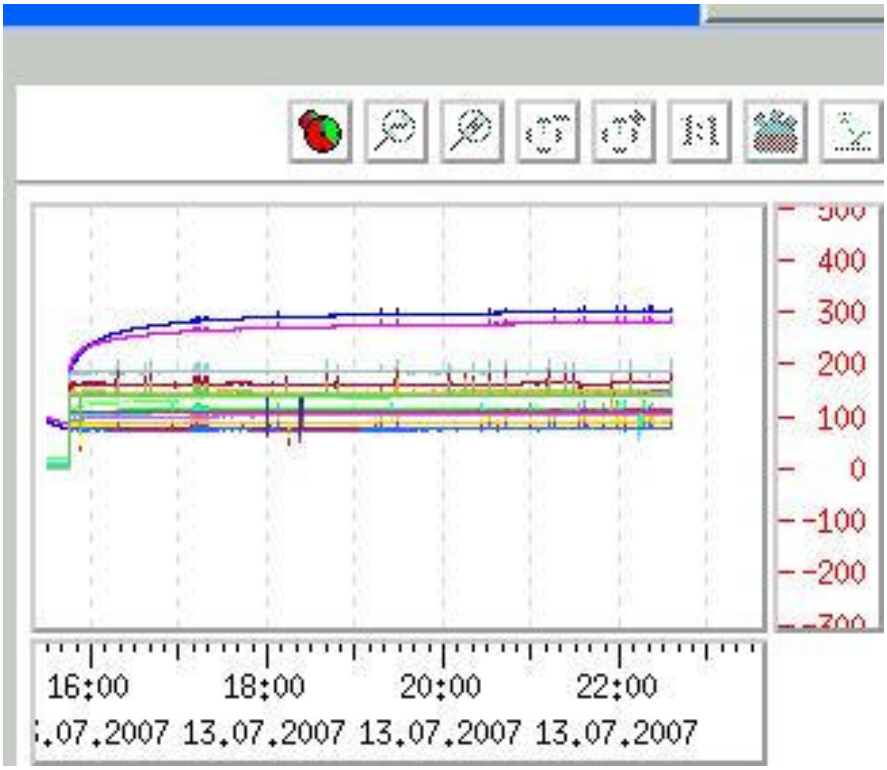
330418	beamData	10x10	-40GeV	e-	531	air	6mm Pb	0.1	+6,0	250 kev

DAQ rate: 80 Hz
~ 4000 pps in 10x10 trigger coincidence

stage at 60,0

2007-07-13 22:24 **rising current**

Current in HV channel 25 & 16 = module 15a & 15b is slowly, but steadiliy increasing since the afternoon



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/13.07/2007-07-13T22:24:03-00.jpg

2007-07-13 23:03 Marie-Cruz, Tao, Nanda **electron run**

330419	beamData	10x10	-30GeV	e-	534	air	6mm Pb	0.35	+6,0

DAQ rate: 50 Hz
~ 940 pps in 10x10 trigger coincidence

stage at 60,0

2007-07-14 00:33 Hakan/Oliver/Wen**e-25GeV**

330420	beamData	10x10	-25GeV	e-	535	Air	6mm Pb	0.5	+6,0	56k events,2k particles per spill
330422	beamData	10x10	-25GeV	e-	535	Air	6mm Pb	0.5	+6,0	205k events

Stopped intial run due to high-looking current values (channel 28, up to 800uA). Seemed to rectify itself.

2007-07-14 01:35 Hakan/Oliver/Wen**e-20**

330423	Beam Data	10x10	-20GeV	e-	533	Air	6mm Pb	0.76	+6,0	1.8k particles per spill,250k events

2007-07-14 02:28 Hakan/Oliver/Wen **e- 15**

330424	beamData	10x10	-15GeV	e-	536	Air	6mm Pb	1.35	+6,0	2k spill rate, 260k events

Set collimators c2, c3, c8 to +/- 10.0mm due to low rate

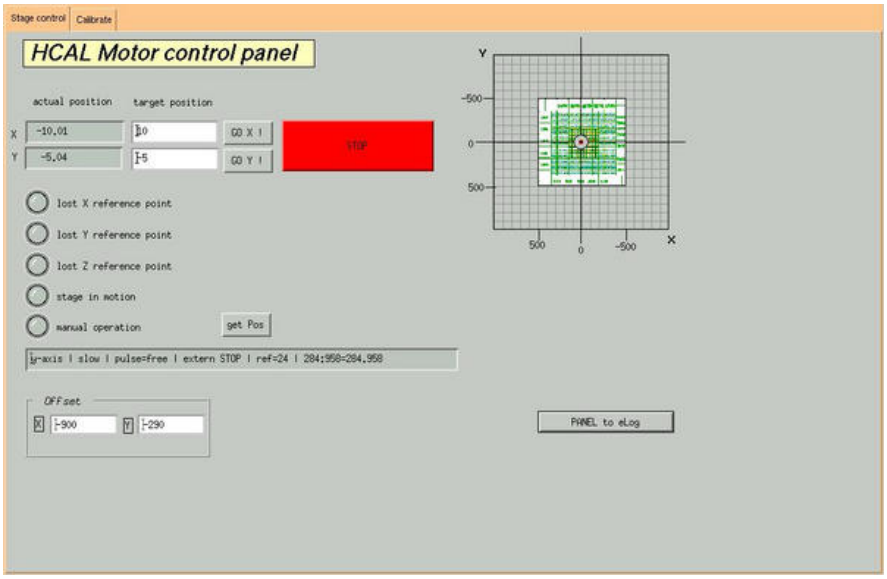
2007-07-14 04:21 Hakan/Oliver/Wen **Test run**

330426	beamData	10x10	-50GeV	e-	530	Air	6mm Pb	0.1	0,-1

Test run to check that ECAL is at y=10. Monitoring shows y=~9.6, so will adjust some more.

2007-07-14 04:35 **new position**

centered beam on ECAL for 50GeV electron beam (10, -5)

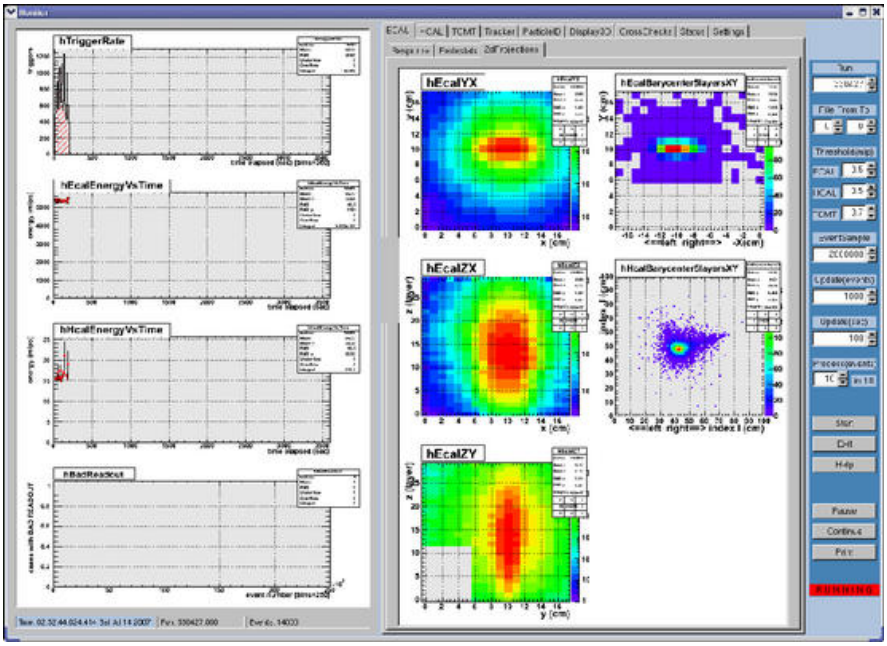


File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/14.07/2007-07-14T04:35:02-00.jpg

2007-07-14 04:42 Hakan/Oliver/Wen **e- 50 GeV**

330427	beamData	10x10	-50GeV	e-	530	Air	6mm Pb	0.1	0,0	50k events, spill rate 2k
330428	beamData	10x10	-50GeV	e-	530	Air	6mm Pb	0.1	0,0	200k events, spill rate 2k

ECAL is now at correct position



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/14.07/2007-07-14T04:42:48-01.eps

2007-07-14 05:38 Hakan/Oliver/Wenbiao **beam 40 GeV**

330429	beamData	10x10	-40GeV	e-	531	Air	6mm Pb	0.1	0,0	spill rate 4k, 270k events

2007-07-14 06:09 wenbiao **data transfer**

When I check the data transfer, I make a mistake by typing "nohup ./p_comb.pl" before the command "less nohup.out", After disscused with Fab, the latest id for the ./cp_comb.pl is killed. After that we checked the data transfer of bin files to the grid. All files seems to be transfered properly. We will check agein after having started a new run.

2007-07-14 06:37 Hakan/Oliver/Wenbiao **beam 30GeV**

330430	beamData	10x10	-30GeV	e-	534	Air	6mm Pb	0.34	0,0	spill rate 2.1k, 270k events

2007-07-14 07:36 Hakan/Oliver/Wenbiao **beam 25 GeV**

330431	beamData	10x10	-25GeV	e-	535	Air	6mm Pb	0.5	0,0	spill rate 1.8k

TRIM6 is off

2007-07-14 07:38 Hakan/Oliver/Wenbiao **copy data to the GRID**

Due to the start of a second copy script (as mentioned before) the original copy script was not able to sent files to the GRID, because the logical filenames were already registered. Therfore, we deleted the files Run330428.000.bin to Run330428.004.bin from the GRID by using the command

lcg-del --vo calice -a lfn:/grid/calice/tb-cern/native/dat/Run330428.000.bin (up to Run330428.004)

After that the files are copied again by the original copy script. The output in the file nohup.out shows now copying of the files Run330428.xxx.bin again. An lfc-ls on the directory shows all the Run330428.xxx.bin files in /grid/calice/tb-cern/native/dat/

The files Run330429.xxx.bin are also being copied to the GRID now.

2007-07-14 08:03 Hakan/Oliver/Wenbiao **conversion of data files from bin to slcio**

Due to the problems with the copying of the bin files (see below) the converter of data files from bin to slcio might not work properlt anymore. We checked the files, which are already converted. The last one converted is Run330427.xxx.slcio . The latest binary file transfered to the GRID is Run330429.xxx.bin . We sent a mail to Roman to check the conversion to slcio.

2007-07-14 08:16 Manqi, Allister, Beni **new shift**

2007-07-14 08:22 Manqi, Beni **TRIM06**

Cannot steer TRIM06. It tells standby.
For the current run (330431) we leave it as it is. For the next run we will try to reactivate it.

EDIT: for 20 GeV (file 533) TRIM06 works again

2007-07-14 08:56 Beni, Allister, Manqi **Beam Run Information 330432**

330432	beamData	10x10	-20GeV	e-	533	air	6mm Pb	0.7426	0,0	256k

2007-07-14 09:56 Allister, Beni, Manqi **Beam Run**

330433	beamData	10x10	-15GeV	e-	536	air	6mm Pb	1.3369	0,0	270k

2007-07-14 11:09 Allister, Beni, Manqi **Beam Run**

330434	beamData	10x10	-100GeV	pi-	516	Pb 4mm	Air	NAN	0,0	260k

trigger rate 7k

2007-07-14 11:12 Allister, Beni, Manqi **option at Run330434, swtich to pion run**

Collimator 1 closed to 4.5cm to lower the trigger Rate

2007-07-14 11:56 Allister, Beni, Manqi **Beam Run**

330435	beamData	10x10	-80GeV	pi-	510	4mmPb	Air	NAN	0,0	260k

trigger rate 9.9k

2007-07-14 12:44 Allister, Beni, Manqi **Beam Run**

330436	beamData	10x10	-50GeV	pi-	512	4mm Pb	Air	NAN	0,0	254k

trigger rate 5.5 k particle per spill

2007-07-14 12:49 Allister, Beni, Manqi **Guassian Fit for electron run 330420-330433**

Performe Gaussian fit to the main energy peak in ECAL:

Beam Energy (GeV)	Run Num	Mean E (MIP)	Sigma (MIP)	Sigma/E
25	330420	3073	185	6.0%
25	330422	3081	183	5.9%
20	330423	2503	158	6.3%
15	330424	1875	151	8.1%
50	330426	5896	298	5.1%
50	330427	5897	278	4.7%
50	330428	5899	282	4.8%
40	330429	4768	241	5.1%
30	330430	3709	193	5.2%
25	330431	3104	177	5.7%
20	330432	2526	155	6.1%
15	330433	1917	134	7.0%

Fit performance in region >-sigma to avoid wafer gap effect and low energy noise

2007-07-14 13:40 Allister, Beni, Manqi **Beam Run**

330437	beamData	10x10	-40GeV	pi-	514	4mm Pb	Air	NAN	0,0	253k

2007-07-14 13:59 Beni **updated AHC.cfg (10x10 & 20x20) hold and VCALIB values**

I tried to synchronize the LED hold and vcalib values in the 10x10 and 20x20 AHC.cfg.

Several vcalib settings were at a unreasonable low value for physics mode.

TO-DO:
• Test if new vcalib settings are appropiate
• synchronize with 100x100 file
• complete PM-mode hold scans (old scans miss a lot of the modules due to the wrong vcalib settings)

```
 -- AHC.cfg (10x10 trigger) --

5 0 AHCAL8 38 38 36 38 19 17 33  61 28000 30500
5 3 AHCAL8 37 37 40 37 18 19 35  64 28000 30500
5 4 AHCAL8 35 36 39 35 17 13 34  60 28000 30500
5 5 AHCAL8 34 35 37 34 16 16 34  60 28000 30500
5 6 AHCAL8 33 34 28 33 15 16 33  61 28000 30500
5 7 AHCAL8 32 33 35 32 14 14 34  59 28000 30500

7 0 AHCAL8 31 32 34 31 13 15 34  60 28000 30500
9 0 AHCAL8 36 31 33 36 37 14 35  60 28000 30500
7 3 AHCAL  24 30 30 24 36 15 33  60 27750 30500
7 4 AHCAL  2  29  6  2 35 14 35  60 28200 30500
12 7 AHCAL  1  28 14  1 34 20 33  60 28000 30500
7 7 AHCAL  30 27 23 30 33 15 34  60 28140 30500

9 1 AHCAL  29 26 26 29 32 13 33 59 28140 30500
9 2 AHCAL  28 25 10 28 12 15 34 62 42500 48000
9 3 AHCAL  27 24 38 27 31 17 33 61 27900 31000
9 4 AHCAL  26 23 22 26 11 16 33 60 28080 31000
9 6 AHCAL  25 22 16 25 30 16 33 59 41800 46000
9 7 AHCAL  23 21 21 23 10 15 33 61 28000 31000

15 1 AHCAL 22 20 32 22 29 15 33 61 28050 31000
15 2 AHCAL 21 19 24 21  9 16 33 61 28000 31000
15 3 AHCAL 20 18 31 18 28 14 33 62 27950 31000
15 4 AHCAL 19 17 27 19  8 16 33 63 28050 31000
15 6 AHCAL 18 16 15 20 27 16 33 70 42050 48000
15 7 AHCAL 17 15 25 17  7 15 33 61 28200 31000

17 0 AHCAL 16 14 29 16 26 16 33 61 28000 31000
17 1 AHCAL 15 13  3 15  6 17 39 69 42050 48000
17 2 AHCAL 14 12  8 14 25 19 33 62 41600 48000
17 4 AHCAL 13 11 18 13  5 19 35 68 41730 48000
17 5 AHCAL 12 10  0 12 24 19 34 67 41720 48000
17 6 AHCAL 11  9 13 11  4 17 34 65 41800 48000
17 7 AHCAL 10  8  2 10 23 19 35 67 42000 48000

19 4 AHCAL  9  7 19  9  3 20 33 66 42000 48000
19 1 AHCAL  8  6 11  8 22 20 33 65 41750 48000
19 2 AHCAL  7  5  5  7  2 18 32 56 41900 48000
19 3 AHCAL  6  4  7  6 21 16 34 64 41700 48000
19 5 AHCAL  5  3  1  5  1 16 38 68 41950 48000
19 6 AHCAL  4  2  4  4 20 16 31 60 41950 48000
19 7 AHCAL  3  1 12  3  0 17 34 60 41800 48000

12 2 PIN 46 1
12 3 PIN 46 2
12 4 PMT 0


12 5 TCMT DAC_tcmt1.dat 16 33 61 4500 11000
12 6 TCMT DAC_tcmt2.dat 15 34 62 9000 16500
1.  end of AHC.cfg file
```

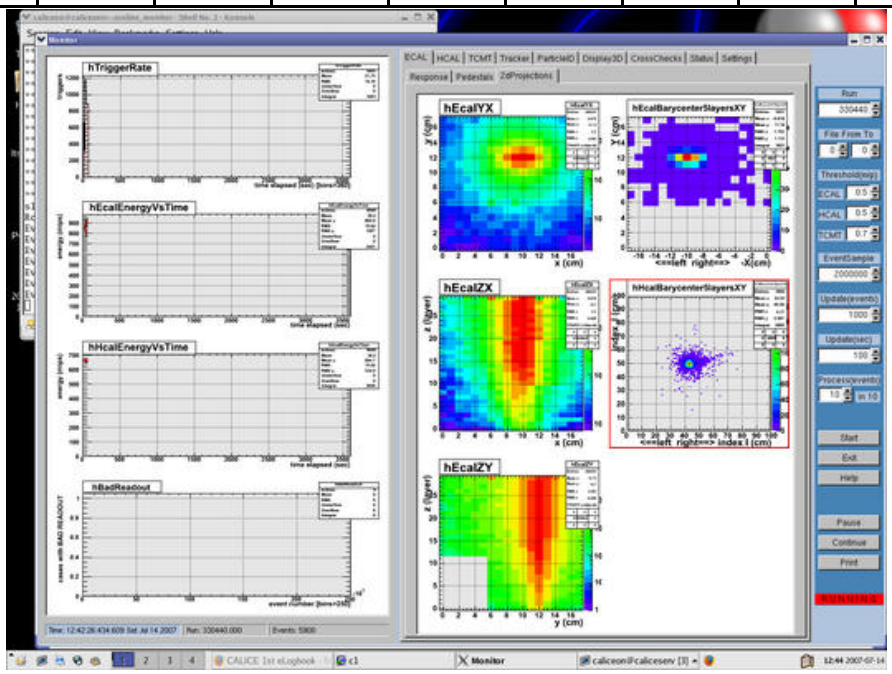
2007-07-14 14:47 Beni **hold scans**

330438	ahcPmLedHoldScan	spill sync on							
330439	ahcPmLedHoldScan	spill sync on							only 49 configurations

2007-07-14 14:49 Allister, Beni, **Pion Beam Run after Stage Shift**

Manqi

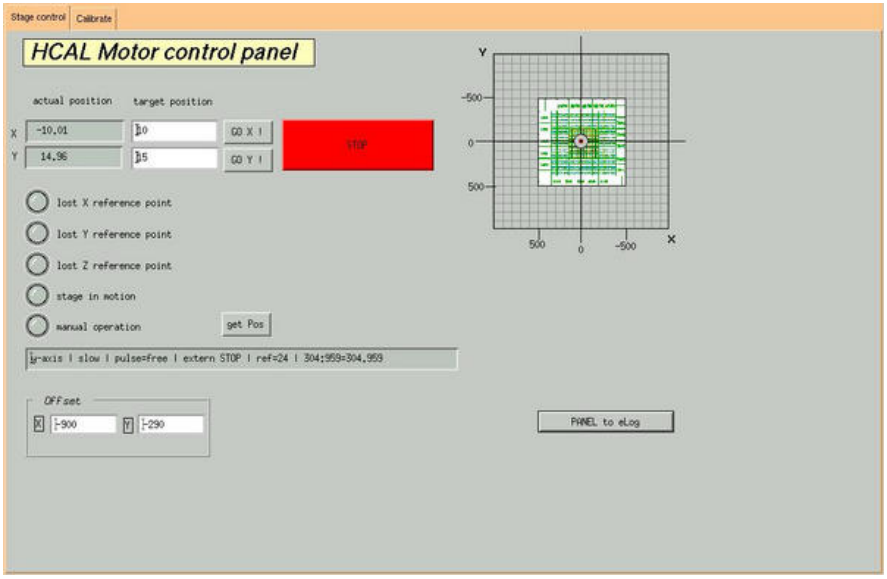
330440	beamData	10x10	-40GeV	pi-	514	4mm Pb	Air	NAN	0,0	Stage shift by -2cm, beam hit at wafer gap in Y direction



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/14.07/2007-07-14T14:49:42-00.png

2007-07-14 14:50 caliceon@calicehcalsrv02.desy.ch **new position**
(CALICE user)

moved stage 2cm down, beam hits ECAL x centered and y between the wafers
target position (10,15)



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/14.07/2007-07-14T14:50:02-00.jpg

2007-07-14 15:48 **hold scans**

330441	ahcPmLedHoldScan	sync on							
330442	ahcPmLedHoldScan	sync off							changed vcalib settings

330443	ahcPmLedHostScan	ldcla sync on							changed vcalib settings
330444	ahcPmLedHostScan	ldcla sync on							changed vcalib settings
330445	ahcPmLedHostScan	ldcla sync on							changed vcalib settings

no beam

2007-07-14 18:12 George, Tao, Nanda **pion run**

330446	beamData	10x10	-50GeV	pi-	512	4mm Pb	air	N/A	0,+3	30 kev

DAQ rate: 70 Hz
~3100 pps in 10x10 trigger coincidence

stopped since there is no beam

2007-07-14 18:35 Nanda **hold scans**

330447	ahcPmLedHostScan	ldcla sync on							changed vcalib settings

preliminary results so far:

no signal at all in modules:
1,2,12,20,23,24,25,26,27,28,29,30,31,34,36
-> will try to reanimate CMBs

successfully determined holdvalues:

module	hold value	vcalib setting
3	63	43000
4	60	46000
5	69	43500
6	65	42000
7	64	43000
8	64	42000
9	68	45000
10	67	44000
11	68	45000
13	68	46000
15	70	46000
16	62	29000
17	62	28000
18	63	43000
19	64	28000
21	63	28000
22	62	28500
32	62	27000
33	62	28000
35	61	27000
37	65	28000
38	63	29000

2007-07-14 18:50 George, Tao, Nanda **pion run**

330448	beamData	10x10	-50GeV	pi-	512	4mm Pb	Air	NAN	0,+3	220 kev

DAQ rate: 80 Hz
~8500 pps in 10x10 trigger coincidence

mean: 1220 mip
sigma: 97 mip

2007-07-14 19:40 George, Tao, Nanda **pion run**

330449	beamData	10x10	-80GeV	pi-	510	4mm Pb	Air	NAN	0,+3

DAQ rate: 87 Hz
~10k pps in 10x10 trigger coincidence

mean: 1891 mip
sigma: 131 mip

2007-07-14 20:00 Beni **cleanup of data00**

I removed runs 330000 to 330261 from data00 with Roman's check and cleanup scripts.

2007-07-14 20:21 Beni **changed data disk**

I changed the disk to data00.

- changed data link on calice00
- updated runNumber.txt
- changed data link in online_monitor
- changed cp_comb.pl

2007-07-14 20:33 George, Tao, Nanda **pion run**

330451	beamData	10x10	-100 GeV	pi-	516	4mm Pb	Air	NAN	0,+2	250 kev

DAQ rate: 80 Hz
~6.9k pps in 10x10 trigger coincidence

mean: 2294 mip
sigma: 165 mip

2007-07-14 21:24 George, Tao, Nanda **electron run**

330452	beamData	10x10	-15GeV	e-	536	air	6mm Pb	1.35	0,+3	250 kev

DAQ rate: 50 Hz
~1.5k pps in 10x10 trigger coincidence

2007-07-14 22:42 George, Tao, Nanda **gain run**

330453	ahcGain					

2007-07-14 22:42 George, Tao, Nanda **electron run**

330454	beamData	10x10	-20GeV	e-	533	air	6mm Pb	0.73	0,+3

DAQ rate: 50 Hz
~1.5k pps in 10x10 trigger coincidence

2007-07-08 00:22 Fab **A new check for the shifters**

Please add this new check to the checklist that needs to be performed during the shift

- check that all the CRCs are properly read out by the DAQ.

From calice00, open an xterm and find the last run in ECAL and AHcal:

- for ECAL: look in ~/data00/data/cernEcalJul07/log/ and issue the command:

> grep alive ~/data00/data/cernEcalJul07/log/Logxxxxx.out_icalice01

(check that the time stamp of the log file corresponds to the latest of the startUps)

If everything is OK, you should see the following:
CrcReadout::ctor() PCI card 0 crate 0xec slot 5 found alive
CrcReadout::ctor() PCI card 0 crate 0xec slot 7 found alive
CrcReadout::ctor() PCI card 0 crate 0xec slot 9 found alive
CrcReadout::ctor() PCI card 0 crate 0xec slot 15 found alive
CrcReadout::ctor() PCI card 0 crate 0xec slot 17 found alive
CrcReadout::ctor() PCI card 0 crate 0xec slot 19 found alive

- for HCAL: look in ~/data00/data/cernAhcalJul07/log/

> grep alive ~/data00/data/cernAhcalJul07/log/Logxxxxx.out_icalice02

(check that the time stamp of the log file corresponds to the latest of the startUps)

If everything is OK, you should see the following:
CrcReadout::ctor() PCI card 0 crate 0xac slot 5 found alive
CrcReadout::ctor() PCI card 0 crate 0xac slot 7 found alive
CrcReadout::ctor() PCI card 0 crate 0xac slot 9 found alive
CrcReadout::ctor() PCI card 0 crate 0xac slot 12 found alive
CrcReadout::ctor() PCI card 0 crate 0xac slot 15 found alive
CrcReadout::ctor() PCI card 0 crate 0xac slot 17 found alive
CrcReadout::ctor() PCI card 0 crate 0xac slot 19 found alive
BmlCaen767Readout::ctor() PCI card 0, VME base address 0xcae00000 found alive
BmlCaen767Readout::ctor() PCI card 0, VME base address 0xcae10000 found alive

2007-07-08 00:44 Alex, Tao, Nanda, Fab **change collimator settings**

since the rate was very high we changed the collimator settings:
collimator1 reference changed to -5.1 (J1), 5.1 (J2)
Now we have ~10000 particles per spill in the 10x10 trigger

2007-07-09 00:34 Kurt, Tao, Nanda **pion run**

330235	beamData	10x10	-100GeV	pi-	516	air	4mm Pb	off	0,0	250 k Events

~11k pps in 10x10 trigger coincidence
Average data taking rate: ~90 Hz

2007-07-09 01:23 Kurt, Tao, Nanda **gain run**

330236	ahcGain						

2007-07-09 01:24 Kurt, Tao, Nanda **noise run**

330237	ahcPmNoise						50k events

2007-07-09 01:49 Kurt, Tao, Nanda **pion run**

330238	beamData	10x10	-80GeV	pi-	510	air	4mm Pb	off	0,0	k Events

~11k pps in 10x10 trigger coincidence
Average data taking rate: ~90 Hz

2007-07-09 02:40 **pion run**

330239	beamData	10x10	-50GeV	pi-	512	air	4mm Pb	off	0,0	250k Events

~6.3k pps in 10x10 trigger coincidence
Average data taking rate: ~85 Hz

2007-07-09 03:29 Kurt, Tao, Nanda **pion run**

330240	beamData	10x10	-40GeV	pi-	514	air	4mm Pb	off	0,0	250k Events

~10.7k pps in 10x10 trigger coincidence
Average data taking rate: ~80 Hz

2007-07-09 04:19 Kurt, Tao, Nanda **pion run**

330241	beamData	10x10	-100GeV	pi-	516	air	4mm	off	0,0	k

							Pb			Events

~11.6k pps in 10x10 trigger coincidence
Average data taking rate: ~80 Hz

2007-07-09 05:05 Kurt, Tao, Nanda **gain run**

330242	ahcGain						

2007-07-09 05:15 Kurt, Tao, Nanda **noise run**

330243	ahcPmNoise						50k events

2007-07-09 05:36 Kurt, Tao, Nanda **pion run**

330244	beamData	10x10	-80GeV	pi-	510	air	4mm Pb	off	0,0	90k Events beam is gone
330245	beamData	10x10	-80GeV	pi-	510	air	4mm Pb	off	0,0	continue 150k ev.

~11.5k pps in 10x10 trigger coincidence
Average data taking rate: ~80 Hz

2007-07-09 06:37 Kurt, Tao, Nanda **pion run**

330246	beamData	10x10	-50GeV	pi-	512	air	4mm Pb	off	0,0	250k events

~6k pps in 10x10 trigger coincidence
Average data taking rate: ~80 Hz

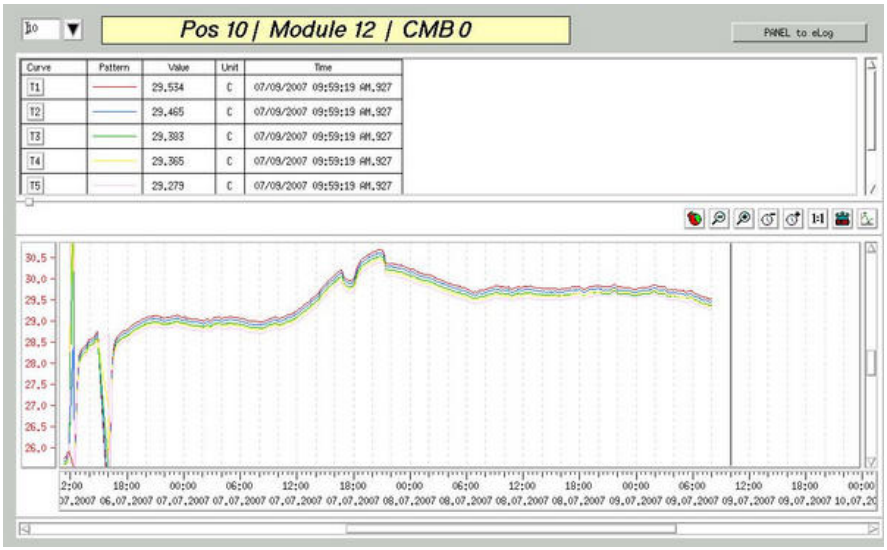
2007-07-09 07:25 Kurt, Tao, Nanda **pion run**

330247	beamData	10x10	-40GeV	pi-	514	air	4mm Pb	off	0,0	250k events

~11.6 pps in 10x10 trigger coincidence
Average data taking rate: ~80 Hz

2007-07-09 07:48 **high temperature**

~2 degree higher temperature in layer 10 and 18 compared to the average HCAL temperature (~27 degree)



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/09.07/2007-07-09T07:48:02-00.jpg

2007-07-09 07:55 Michal, Cristina **ECAL linearity**

RunId	beam en	ECAL mean en	conv factor
330215	-20GeV	4560 MIPs	228
330212	-30GeV	6790 MIPs	226
330213	-30GeV	6803 MIPS	227
330208	-50GeV	11401 MIPs	228

- weighting scheme for ECAL 1:2:3

2007-07-09 08:21 Michal, Beni, Cristina **100 GeV pion run**

330248	beamData	10x10	-100GeV	pi-	516	air	4mm Pb	off	0,0	stopped after 110000 evts to reload the HCAL settings
330250	beamData	10x10	-100GeV	pi-	516	air	4mm Pb	off	0,0	253 kevts

~11.6 pps in 10x10 trigger coincidence
Average data taking rate: ~75 Hz

2007-07-09 09:30 Michal, Beni, Cristina **ahcGain**

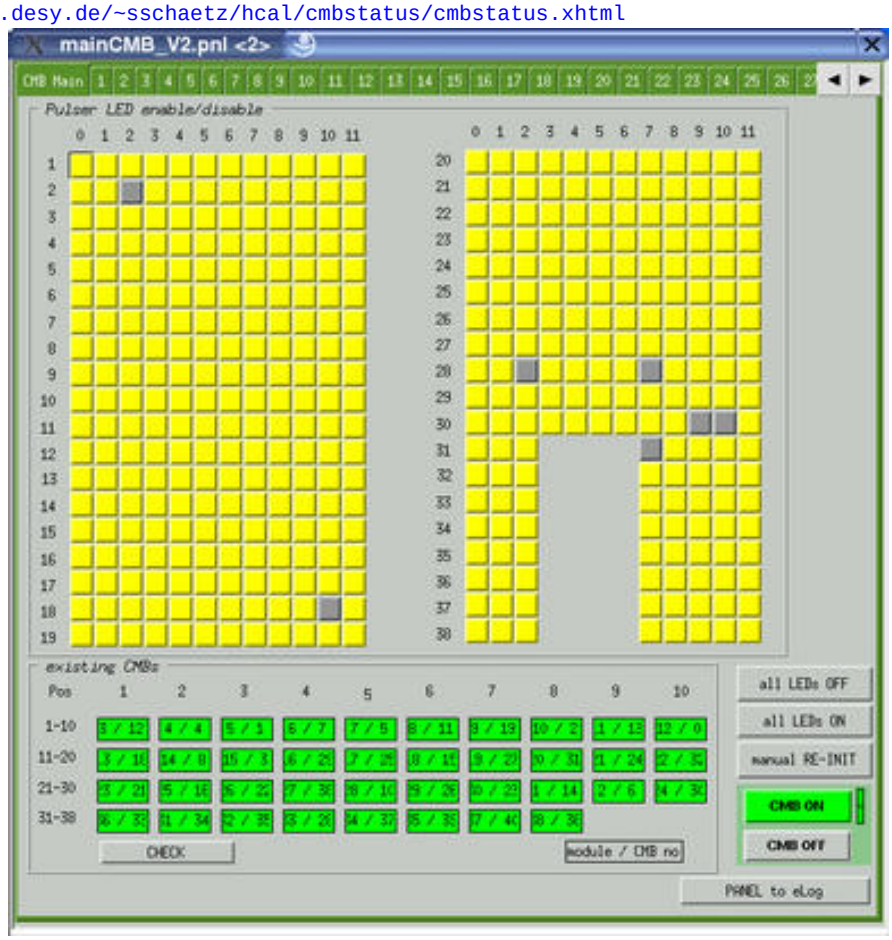
330251	ahcGain	11*15K evts

2007-07-09 09:48 Beni,Alex **wrong LED was switched off**

During the last gain run a to high amplitude for some channels in Module 4 showed up. A crosscheck with Sebastians website showed that the wrong LED was switched off on this board. The broken LED is no 2 (counting from 0) and not 1. After disabeling the right LED the signal looks fine for this Module.

EDIT: 2007 07 09, 12:32 Due to a misunderstood mapping, wrong LEDs got switched off. Alexander is fixing this now. New Settings are shown below.

Ref: http://www.desy.de/~sschaetz/hcal/cmbstatus/cmbstatus.xhtml



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/09.07/2007-07-09T09:48:39-03.png

2007-07-09 09:56 Michal, Beni, Cristina

330252	ahcPmNoise	10x10	-100GeV	pi-	516	air	4mm Pb	off	0,0	20 k evts

2007-07-09 10:24 Michal, Beni, **muon run, tuned HCAL HV layer per layer**

Cristina

330258	beamData	100x100	-80GeV	mu-	510	off	8mm Pb	off	0,0	250K
330257	beamData	100x100	-80GeV	mu-	510	off	8mm Pb	off	0,0	220K
330256	beamData	100x100	-80GeV	mu-	510	off	8mm Pb	off	0,0	250K
330255	beamData	100x100	-80GeV	mu-	510	off	8mm Pb	off	0,0	250K
330254	beamData	100x100	-80GeV	mu-	510	off	8mm Pb	off	0,0	250K

reinstalled front muon counter

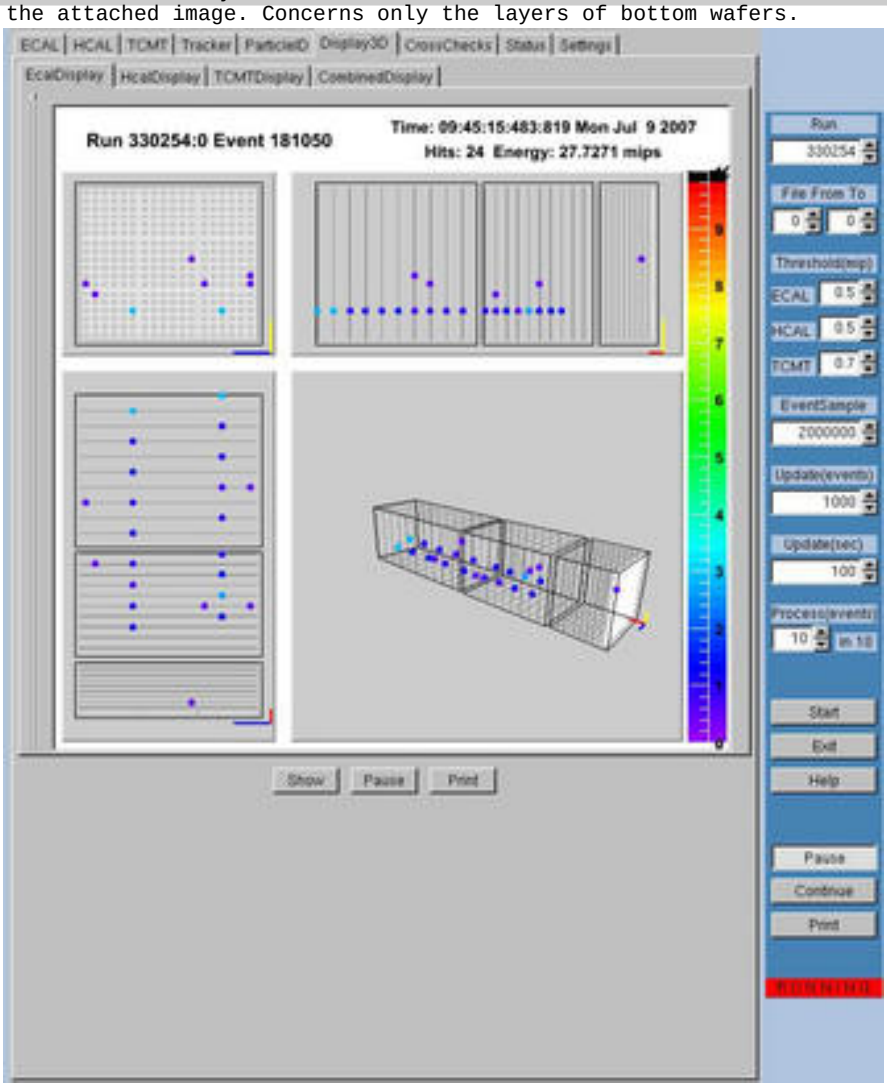
2007-07-09 11:06 Beni **broken trigger cable**

During Cherenkov comissioning I found the cable from LVDS converter to backplane input for channel 14 broken. Therfore,

CHERENKOV input moved to channel 13

2007-07-09 13:09 Michal, Cristina, Benjamin **ECAL- wrong mapping in the online display**

Clearly seen in the attached image. Concerns only the layers of bottom wafers.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/09.07/2007-07-09T13:09:37-00.jpg

2007-07-09 14:01 Cristina **HCAL linearity (pi-)**

Run Id	Beam energy	HCAL mean [MIP]	conv factor

330240	-40GeV	986	24.65
330239	-50GeV	1212	24.2
330238	-80GeV	1848	23.1
330250	-100GeV	2274	22.7

24 * 1.4 = 34 ~ 37 MIP/GeV taking into account the e/pi ratio

2007-07-09 14:45

No beam for at least 10 minutes.

3300259	ahcGain		spill sync switched off, used for CMB response tests

checked following CMBs which did not show proper signal in hstDisplay

CMB	module	status
0	12	looks dead, voltage @ U401 = 0
6	2	can be switched on manually
8	14	manual possible
14	1	l. dead, V_U401 = 0
16	25	manual possible
31	20	l. dead, V_U401 = 0

2007-07-09 15:27 Michael, Beni, Cristina

330260	beamData	100x100	-80GeV	mu-	510	off	8mm lead	off	0,0	23K

Run stopped to allow the preparation of a lower energy beam

2007-07-09 15:33 Beni **DAQ work & ECAL stage re-integration**

I tried to switch off all switches and timer that could bring the ECAL-stage-laptop to any other mode than alive.

all configuration files should be synchronized again
Changed calice00:~/online/src/runnerDefine.icc to connect to ECAL stage
buildAll on calice00
buildAll on calice02

restart of GUI

REMARK: on calice01 runnerDefine.icc already had the ECAL-stage in, skipped build all on this machine

2007-07-09 16:31 Mary-Cruz/Hengne/Niels **muon run**

330261	beamData	100x100	-80GeV	mu-	555	8mm Pb	air	on	0,0	muon calibration, stopped after 120k Events due to disk space limitations

disk is changed to data01 from data00 and DAQ restarted at 17:20 09/07/2007

2007-07-09 17:17 Mary-Cruz/Hengne/Niels

330262	beamData	100x100	-80GeV	mu-	555	8mm Pb	air	on	0,0	250k
330263	beamData	100x100	-80GeV	mu-	555	8mm Pb	air	on	0,0	250k

2007-07-09 18:28 Mary-Cruz/Hengne/Niels **Front muon trigger removed from beam line**

We'll move on to electrons and removed the 100x100 muon trigger in front of the experiment.

2007-07-09 19:06 Mary-Cruz/Hengne/Niels **Stage moved**

Stage position moved to (-6,0)

2007-07-09 19:47 Fab **DC trip**

All three DC tripped after shutting down muon chamber

Mapping of DC HV cables, in case needed to turn them on after a trip

DC1 -> HV channel 36
DC2 -> HV channel 37
DC3 -> HV channel 38

2007-07-09 20:00 Mary-Cruz/Hengne/Niels

330264									beam steering test - not for physics
330265									beam steering test - not for physics
330266									beam steering test - not for physics
330267									beam steering test - not for physics
330268									beam steering test - not for physics
330269									beam steering test - not for physics

2007-07-09 21:20 Roman **cogri scripts restarted**

I have restarted the cogri scripts

Copying and conversion resumed at Run 330259.

Since there might be instabilities with the connection to desy
I will continue to watch them.

Cheers,

Roman

2007-07-09 21:25 Mary-Cruz/Hengne/Niels

330270	beamData	10x10	-50GeV	e-	530	Air	6mm Pb	off	-6,0	200 k evts

2007-07-09 21:27 Mary-Cruz/Hengne/Niels

330271	beamData	10x10	-100GeV	pi-	516	4mm Pb	Air	off	-6,0	200k evts
330272	beamData	10x10	-80GeV	pi-	510	4mm Pb	Air	off	-6,0	200k evts
330273	beamData	10x10	-50GeV	pi-	512	4mm Pb	Air	off	-6,0	200k evts
330274	beamData	10x10	-40GeV	pi-	512	4mm Pb	Air	off	-6,0	200k evts

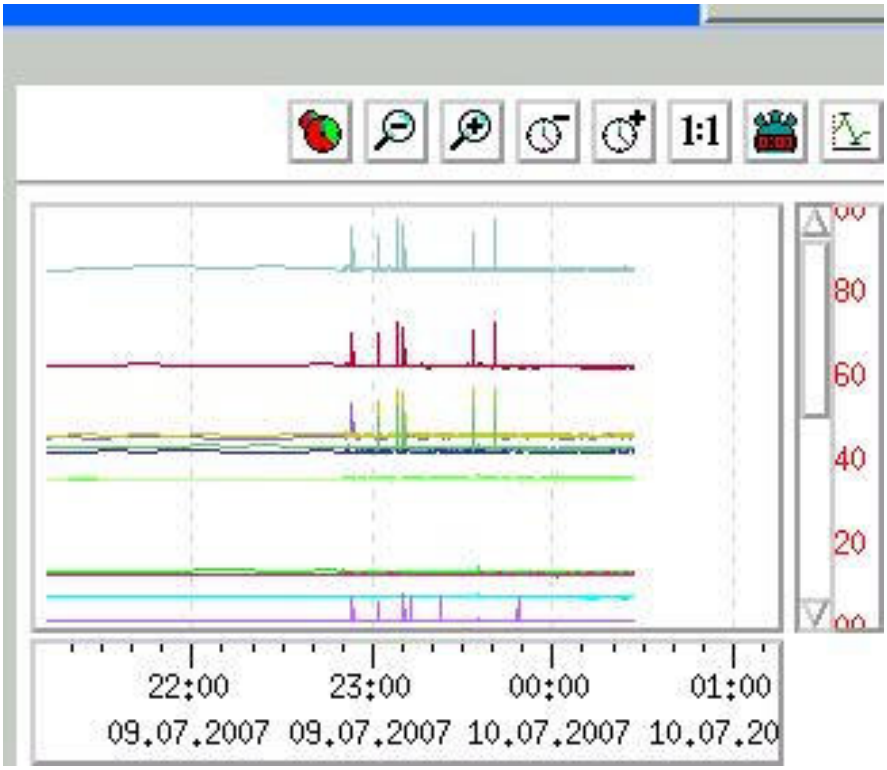
2007-07-10 00:07 Kurt, Wenbiao, Trygve

330275	ahcGain					lead	air	off	11 configuration

2007-07-10 00:18 caliceon@calicehcal02.cern.ch (CALICE user) **HCAL comments**

What are these spikes starting to appear at around 23:00?

Plot shows HV 21-40.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/10.07/2007-07-10T00:18:02-00.jpg

2007-07-10 00:39 Kurt, Wenbiao, Trygve **beamData**

330276	beamData	10x10	-40GeV	e-	531	air	6mm Pb	off	-6,0	200k events
330277	beamData	10x10	-30GeV	e-	532	air	6mm Pb	off	-6,0	200k events
330278	beamData	10x10	-20GeV	e-	533	air	6mm Pb	off	-6,0	200k events, Lost beam for ~10 minutes after 84k events in this run

2007-07-10 02:32 Kurt, Wenbiao, Trygve **ECAL energy**

Looking at the peak position for the energy depositied in ECAL when taking e- runs:

40 GeV (Run330276) -> 4800 MIP
30 GeV (Run330277) -> 2500 MIP
20 GeV (Run330278) -> 2500 MIP

The "30 GeV run" looks more like 20 GeV...

I checked the magnet setting files; bending magnets have same settings in files 532 & 533 which explains why Runs 330277 and 330278 appears to have same energy.

2007-07-10 03:08 Roman **Copy scripts stopped**

Hi there

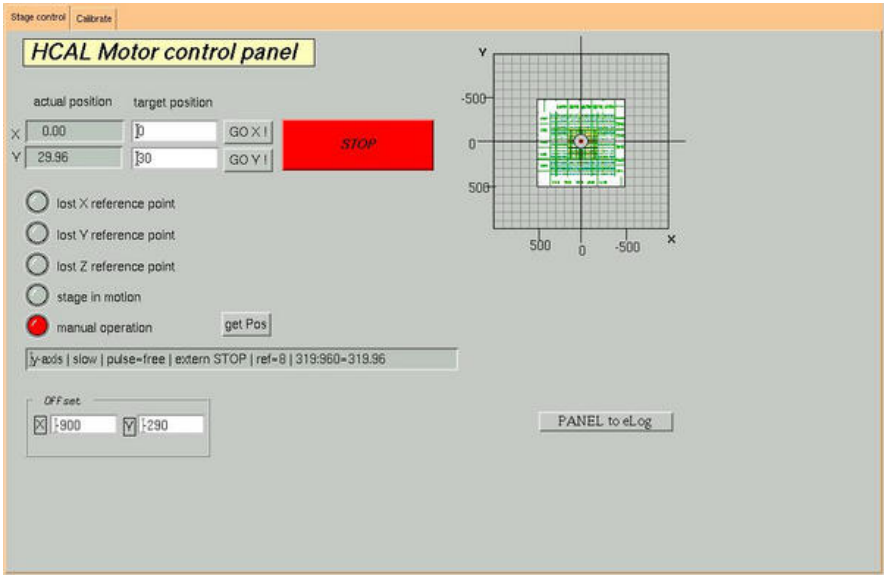
since it seems as if there are persistent problems with the srm-dcache I have
to stop the cogri scripts once more.

Cheers,

Roman

2007-07-10 03:23 Beni **moved to new position**

reached (0,+3cm)



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/10.07/2007-07-10T03:23:02-00.jpg

2007-07-10 03:36 Kurt, Wenbiao, Trygve **Beam Data**

330279	beamData	10x10	-100GeV	pi-	516	4mm Pb	air	off	0,+3	aborted
330280	ahcPmLedVoltageScan	10x10	-100GeV	pi-	516	4mm Pb	air	off	0,+3	
330281	beamData	10x10	-100GeV	pi-	516	4mm Pb	air	off	0,+3	200k events
330282	beamData	10x10	-80GeV	pi-	510	4mm Pb	air	off	0,+3	200k events, lost beam for ~10minutes during this run at 65k events
330283	beamData	10x10	-50GeV	pi-	512	4mm Pb	air	0.1178bar	0,+3	202k events

2007-07-10 06:27 > **cogrid scripts restarted - OUTPUT SENT TO CC IN2P3 Lyon**

Dear Colleagues,

I have started the cogri scritps, and give them back under shift crew control taking into account
the lines below.

As the srm-dcache turned out to be pretty unstable tonight and it is likely that there will
be more interruption during tomorrow due to tests on the problem at desy, all data binary and converted files
are currently copied to cc in2p3 at lyon. I have modified the scripts accordingly and first tests
turned out to be successful.

This is true for runs >= 330279

All runs until then are available at desy, however the conversion was blocked by this and another problem with the
ressource broker we have used at desy. I have also switched to another ressource broker which seem to work
better.

Runs betwen 330257 and 330278 have not been converted so far as well as 14 runs earlier which got stucked
in the 'Scheduled' state at epgce2.ph.bham.ac.uk . Unfortunately, the problem of today prevented me from
curing the first one by resending the jobs.

Transfer rates into lyon are with ~10-15 MByte/s satisfactory, such that there is no big worry concerning speed.

At least everything looks much healthier now than earlier tonight.

Cheers,

Roman

P.S.: To Erika and Fab, these are also my two pences for the 930h meeting to which I won't attend today.

Addendum: I just saw that the first lcio file created in the 'lyon based chain' came back successfully from the grid.

2007-07-10 07:33 Kurt, Wenbiao, Trygve **ahcGain**

330284	ahcGain

2007-07-10 07:33 Kurt, Wenbiao, Trygve **BeamData**

330285	beamData	10x10	-40GeV	pi-	514	4mm Pb	air	0.2016	0,+3	72k events. stopped early, low rate through most of run
330286	beamData	10x10	-40GeV	pi-	514	4mm Pb	air	0.2016	0,+3	114k events. beam not stable, beam lost due to RF problem

2007-07-10 09:10 Erika **calibration run**

330287	ahcPmLedVcalibScan		no light in modules 19, 12, 34, 2, 1
330288	ahcPmLed	-e 10000	
330289	ahcCmLed	-e 10000	
330291	ahcCmLedVcalibScan		

2007-07-10 09:11 Beni, Michal, Cristina **e runs**

330294	beamData	10x10	-40GeV	e-	531	air	6mm Pb	off	0,+3	junk
330293	beamData	10x10	-20GeV	e-	533	air	6mm Pb	off	0,+3	200K
330292	beamData	10x10	-20GeV	e-	533	air	6mm Pb	off	0,+3	70K

DAQ rate 28 Hz

330292 run stopped - beam off

2007-07-10 11:08 **change wobbling settings**

change wobbling settings from -80 to -10 GeV

2007-07-10 12:27 Beni, Michal, Cristina **calib run**

330302	ahcGain	
330301	ahcCmLedVcalibScan	
330300	ahcPmLedVcalibScan	

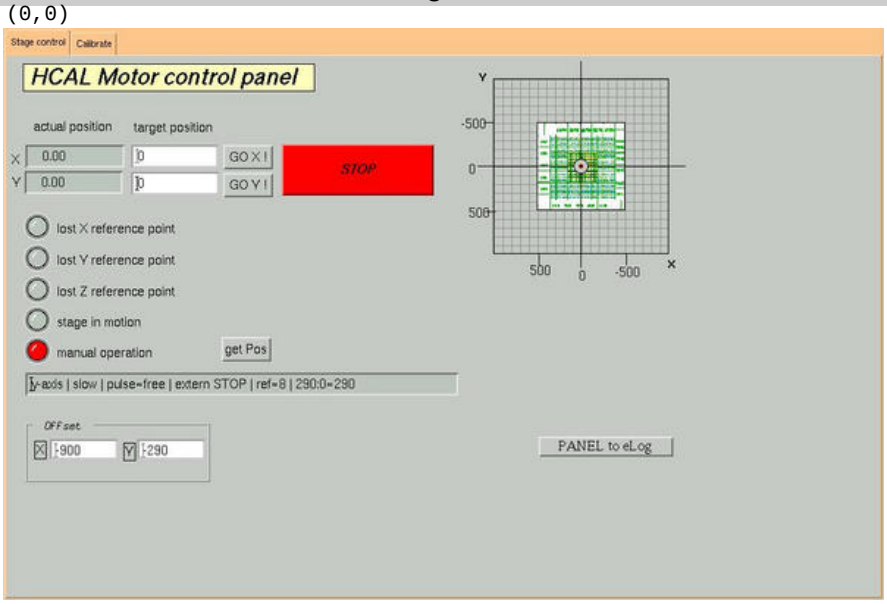
2007-07-10 13:16 Beni, Michal,

				Cristina						
330303	beamData	10x10	-10GeV	pi-	533	air	air	off	0,+3	beam tunning

2007-07-10 13:27			Beni, Michal, Cristina	**electron run**						
330304	beamData	10x10	-10GeV	e-	533	air	air	off	0,+3	180K

2007-07-10 14:18 Beni **stage movement**

new position is (0,0)



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/10.07/2007-07-10T14:18:02-00.jpg

2007-07-10 14:26 Fab **DC1 (right wire) signal cable moved to different discriminator's channel**

Discriminator's channel where DC1 (right wire) was plugged in found broken.
Moved DC1 (right) cable to different channel of same discriminator.

2007-07-10 14:33			Beni, Michal, Cristina							
330306	beamData	10x10	-10GeV	pi-	520	4mm	air	2.9	0,0	62K, 20% el, 30% muon
330305	beamData	10x10	-10GeV	e-	520	air	air	off	0,0	abandonned

2007-07-10 16:31			Mary-Cruz/Hengne/Niels						
330307	beamData	10x10	-25GeV	pi-	526	4mm Pb	air	0.5	beam tuning - not for physics
330308	beamData	10x10	-25GeV	pi-	526	4mm Pb	air	0.5	beam tuning - not for physics
330309	beamData	10x10	-25GeV	pi-	526	4mm Pb	air	0.5	beam tuning - not for physics
330310	beamData	10x10	-8GeV	pi-	525	4mm Pb	air	0.5	beam tuning - not for physics
330311	beamData	10x10	-20GeV	pi-	523	4mm Pb	air	0.5	beam tuning - not for physics
330312	beamData	10x10	-18GeV	pi-	522	4mm Pb	air	0.5	beam tuning - not for physics
330313	beamData	10x10	-18GeV	pi-	522	4mm	air	0.5	beam

						Pb			tuning - not for physics
330314	beamData	10x10	-18GeV	pi-	522	4mm Pb	air	0.5	beam tuning - not for physics
330315	beamData	10x10	-15GeV	pi-	521	4mm Pb	air	0.5	beam tuning - not for physics
330316	beamData	10x10	-15GeV	pi-	521	4mm Pb	air	0.5	beam tuning - not for physics
330317	beamData	10x10	-15GeV	pi-	521	4mm Pb	air	0.5	beam tuning - not for physics
330318	beamData	10x10	-15GeV	pi-	521	4mm Pb	air	0.5	beam tuning - not for physics
330319	beamData	10x10	-15GeV	pi-	521	4mm Pb	air	0.5	beam tuning - not for physics
330320	beamData	10x10	-12GeV	pi-	524	4mm Pb	air	0.5	beam tuning - not for physics
330321	beamData	10x10	-12GeV	pi-	524	4mm Pb	air	0.5	beam tuning - not for physics
330322	beamData	10x10	-10GeV	pi-	520	4mm Pb	air	0.5	beam tuning - not for physics
330323	beamData	10x10	-10GeV	pi-	520	4mm Pb	air	0.5	beam tuning - not for physics
330324	beamData	10x10	-8GeV	e-	524	4mm Pb	air	0.5	beam tuning - not for physics

2007-07-10 17:41 **[Fwd: [calice-vo-support] Short Service Interruption srm-dcache.desy.de,**

```
--------------------------------------------------------------------------------
Publication from : Christoph Wissing <christoph.wissing@desy.de> (DESY-HH)

This mail has been sent using the broadcasting tool available at http://cic.gridops.org

--------------------------------------------------------------------------------
Dear *,

due an urgent reboot of the PNFS backup device the srm-dcache.desy.de will not be available
tomorrow,
 July 12th from 11:00 until about 12:30.

No queues of the CEs at DESY-HH will be drained.

Regards, Christoph (for the DESY-HH admin)
```

2007-07-10 17:47 > **[Fwd: [calice-vo-support] Short Service Interruption srm-dcache.desy.de,**

```
Roman Poeschl wrote:
A few words more ...

The problem with the srm-dcache doess not mean that users cannot
continue to use it.

It might only happen that access attemps will fail and one has to retry.
Why this is to some extend acceptable
for users we cannot use it for the current primary management of the
data (i.e. permant copying and processing)
```

So the lines below affect only the actions performed with the caliceserv
in the control room, but it remains true that
the currently data are stored in lyon (binaries and converted files).

Cheers,

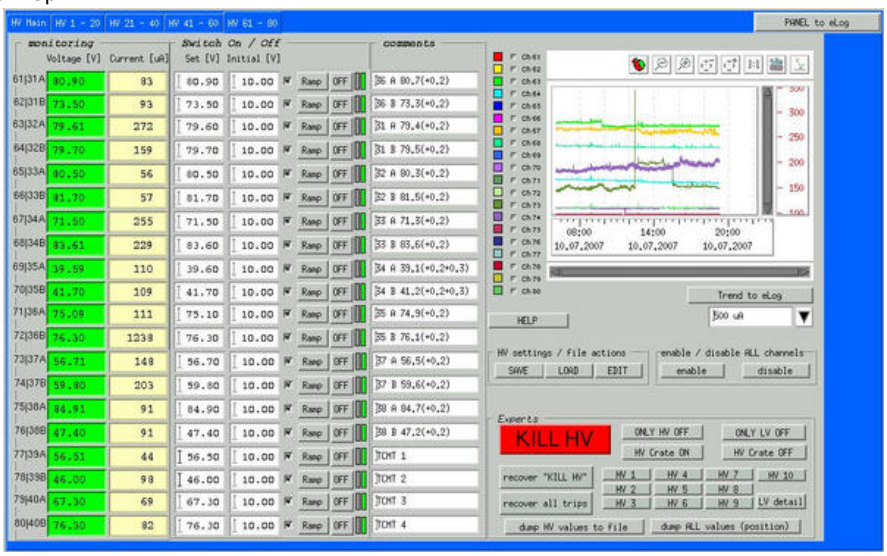
Roman

2007-07-10 18:44 Mary-Cruz/Hengne/Niels

330325	beamData	10x10	-25 GeV	pi-	526	4mm Pb	air	0.5	0,0	200k evts.

2007-07-10 19:07 **high current**

during beam tuning some currents had jumps or increased slowly. Maybe effect of the higher number of particles per spill !?



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/10.07/2007-07-10T19:07:01-00.jpg

2007-07-10 19:39 Mary-Cruz/Hengne/Niels

330326	beamData	10x10	-20GeV	pi-	523	4mm Pb	air	0.76	0,0	200k Events
330327	beamData	10x10	-18GeV	pi-	522	4mm Pb	air	0.94	0,0	200k Events

2007-07-10 21:24 Mary-Cruz/Hengne/Niels **Beam monitors removed**

We removed the MWPCs and Sci counters for beam monitoring in order to minimize upstream material.

2007-07-10 21:25 Mary-Cruz/Hengne/Niels

330328	beamData	10x10	-15GeV	pi-	521	4mm Pb	air	1.35	0,0	200k Events

QUAD01 shows slightly fluctuating current within +/- 1A.

2007-07-10 22:09 Mary-Cruz/Hengne/Niels

330329	beamData	10x10	-12GeV	pi-	524	4mm Pb	air	in transition	0,0	20k Events
330330	beamData	10x10	-12GeV	pi-	524	4mm Pb	air	2.11	0,0	300k Events

QUAD01 continues to misbehave - most probably a problem with the read-back of the current, not with the actual setting.

2007-07-10 22:43 Mary-Cruz/Hengne/Niels

The histogram dimensions for the online monitoring have been changed to some more reasonable values. The old settings are saved in HistoInit.dat.bak_20070710

2007-07-10 22:50 Mary-Cruz/Hengne/Niels

Slightly high current (450muA) for module 28B, high voltage channel 50/25B. This is the current limit - please monitor carefully! Call Beni (165554) when current increases beyond 500muA.

2007-07-10 23:25 Mary-Cruz/Hengne/Niels

By performed a gaussian fit on the peak of the hHcalEnergy histo we obtain:

Run	Energy	Particle	Mean fit value	
330325	-25GeV	pi-	640 mip	
330326	-20GeV	pi-	514 mip	
330327	-18GeV	pi-	456 mip	
330328	-15GeV	pi-	377 mip	
330330	-12GeV	pi-	296 mip	

2007-07-10 23:38 Mary-Cruz/Hengne/Niels

330331	ahcGain

Beam gone, so we take a gain run...

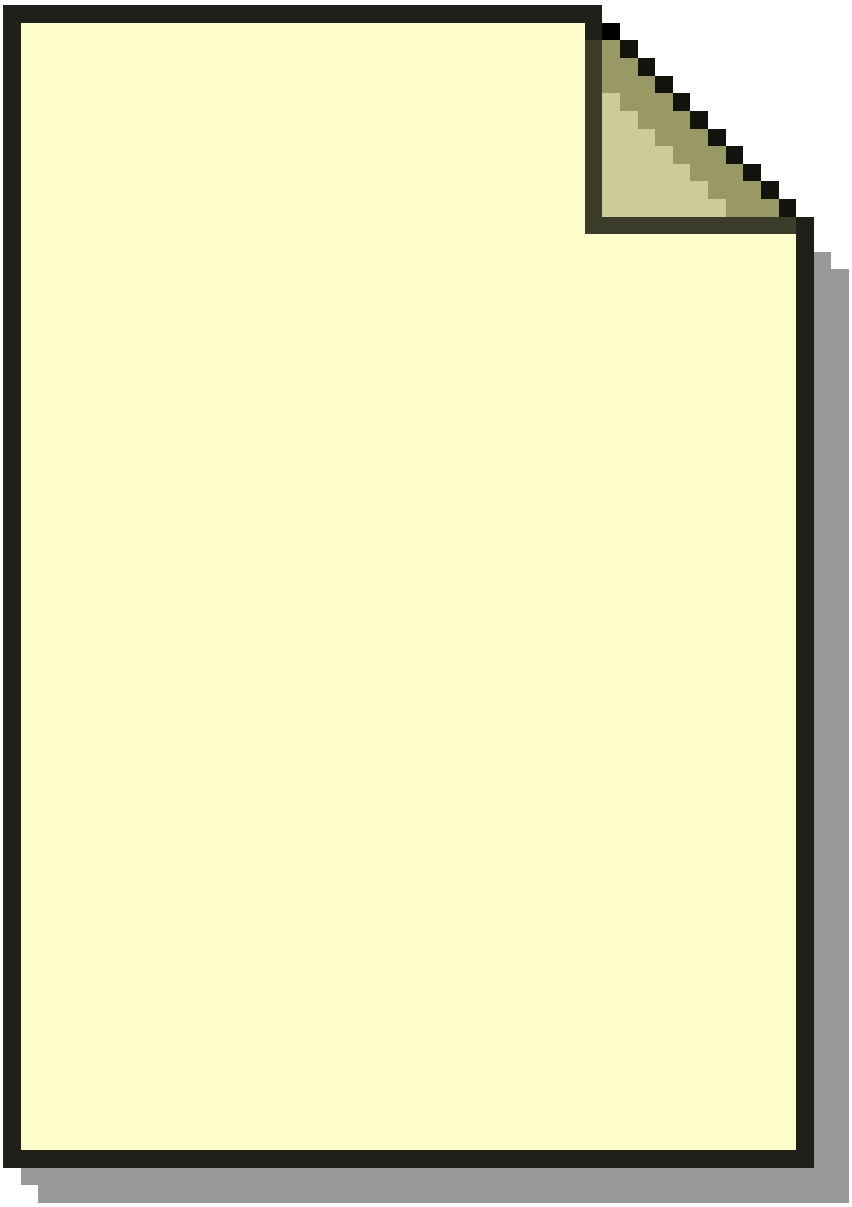
2007-07-10 23:44 Beni **AHC.cfg issues**

I corrected some CMB mapping errors in AHC.cfg.
AHC_CERN07_beamhold_10x10.cfg, AHC_CERN07_beamhold_20x20.cfg and AHC_CERN07_beamhold_100x100.cfg were checked, the CMB mapping should be right in all three now.

There are still wrong hold values in some of the files.

new AHC_CERN07_beamhold_10x10.cfg below

REMARK: Due to the full disk, no AHC.cfg changes were possible. During changes the original AHC_CERN07_beamhold_10x10.cfg
was lost for the same reason but could be recovered from a backup file.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/10.07/2007-07-10T23:44:35-00.cfg

2007-07-11 00:06	Kurt/Wenbiao/Tryg	**Beam Data**								
330332	beamData	10x10	-10GeV	pi-	520	4mm Pb	air	2.6064	0,0	200k Events

2007-07-11 00:47	Kurt/Wenbiao/Tryg	**beam data**								
330333	beamData	10x10	-8GeV	pi-	525	4mm Pb	air	in transition	0,0	7k Events
330334	beamData	10x10	-8GeV	pi-	525	4mm Pb	air	3.0005	0,0	200k Events

2007-07-11 01:44	Kurt/Wenbiao/Tryg	**Beam Data**								
330335	beamData	10x10	-25GeV	e-	526	air	air	0.4715	0,0	40k Events
330336	beamData	10x10	-25GeV	e-	526	6mm Pb	air	0.4715	0,0	12k Events moved in absorber to increase e-/pi- ratio

330337	beamData	10x10	-25GeV	e-	526	air	air	0.4715	0,0	180k Events

removed absorber e- beam highly contamianated by pions (~5pions/1electron)
lost beam for about 10minutes HCAL slow control output 74/37B started to flash red

2007-07-11 03:04 Kurt/Wenbiao/Trygve **Beam Data**

330338	beamData	10x10	-20GeV	e-	523	air	air	0.7667	0,0	garbage
330339	beamData	10x10	-20GeV	e-	523	air	air	0.7667	0,0	garbage
330340	beamData	10x10	-20GeV	e-	523	air	air	0.7667	0,0	199k events

e- beam contaminated by pions (~1 to 1 ratio)

2007-07-11 03:48 Kurt **Beam Data**

330341	beamData	10x10	-18GeV	e-	522	air	air	0.9481	0,0	202k events

e- beam contaminated by pions (~1 to 1 ratio)

2007-07-11 04:36 Kurt **Beam Data**

330342	beamData	10x10	-15GeV	e-	521	air	air	in transition	0,0	10k events
330343	beamData	10x10	-15GeV	e-	521	air	air	1.3613	0,0	200k events

e- beam contaminated by pions but better than previous runs(2 e- to 1 pion)

2007-07-11 05:23 Kurt **Beam Data**

330344	beamData	10x10	-12GeV	e-	524	air	air	in transition	0,0	25k events
330345	beamData	10x10	-12GeV	e-	524	air	air	2.1100	0,0	182k events

e- beam contaminated by pions but better than previous runs(6 e- to 1 pion)

2007-07-11 06:03 Kurt **Beam Data**

330346	beamData	10x10	-10GeV	e-	520	air	air	in transition	0,0	12k events
330347	beamData	10x10	-10GeV	e-	520	air	air	2.6002	0,0	200k events

e- beam slightly contaminated by pions ~10%

2007-07-11 06:51 Kurt

330348	beamData	10x10	-8GeV	e-	525	air	air	3.0005	0,0	200k events

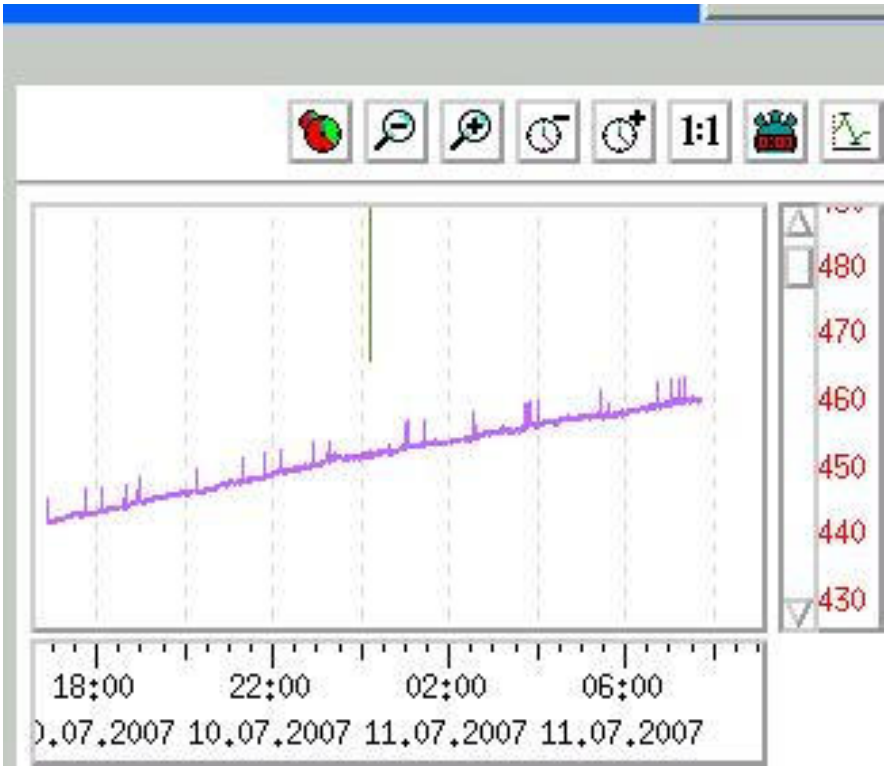
e- beam slightly contaminated by pions ~17%

ECAL layer 12 has factor ~2 too many hits (judging from neighbour layers). We have not seen this earlier tonight.

QUAD11 is also unstable now, just as QUAD1 has been for all of the shift. Neither deviates much from nominal values, but they are frequently off value.

⚠ 2007-07-11 07:34 Trygve **HCAL Channel 50**

Current in HCal channel 50 has been rising slowly throughout the shift. The rate is approximately 1uA/hour. The channel is still not far above threshold, but since it has a persisiting trend this should be looked into.



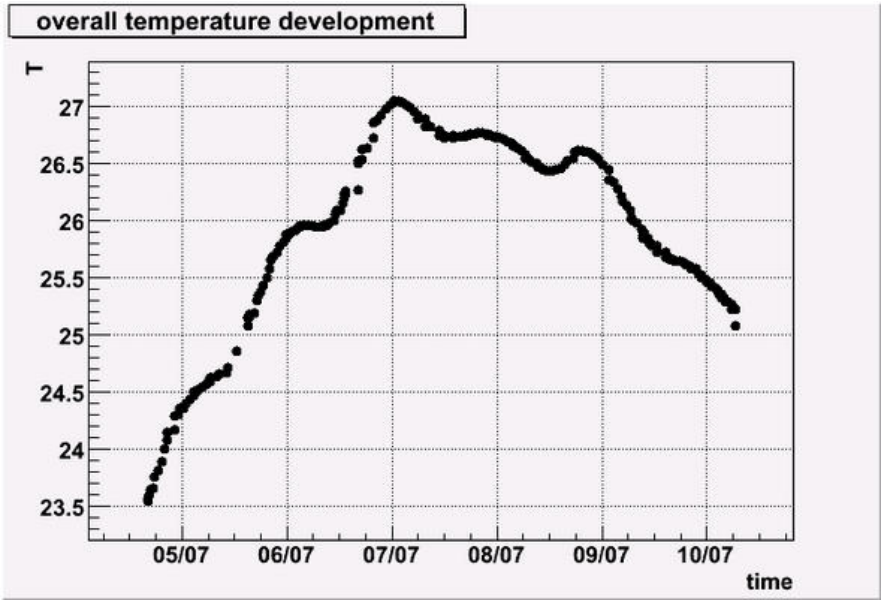
File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/11.07/2007-07-11T07:34:01-00.jpg

2007-07-11 10:18 Erika **optical fiber swap**

the optical fibers of calice02 and calice01 have been swapped according to Paul request

2007-07-11 11:53 Beni **temperature development in our detector**

The plot shows the average temperature, calculated from the first temperature record in each run taken since 4th of July. The start of the records corresponds to the switch on of the detector for data taking. Before this, the HCAL had some time to cool down. After this, it was practically on continously.

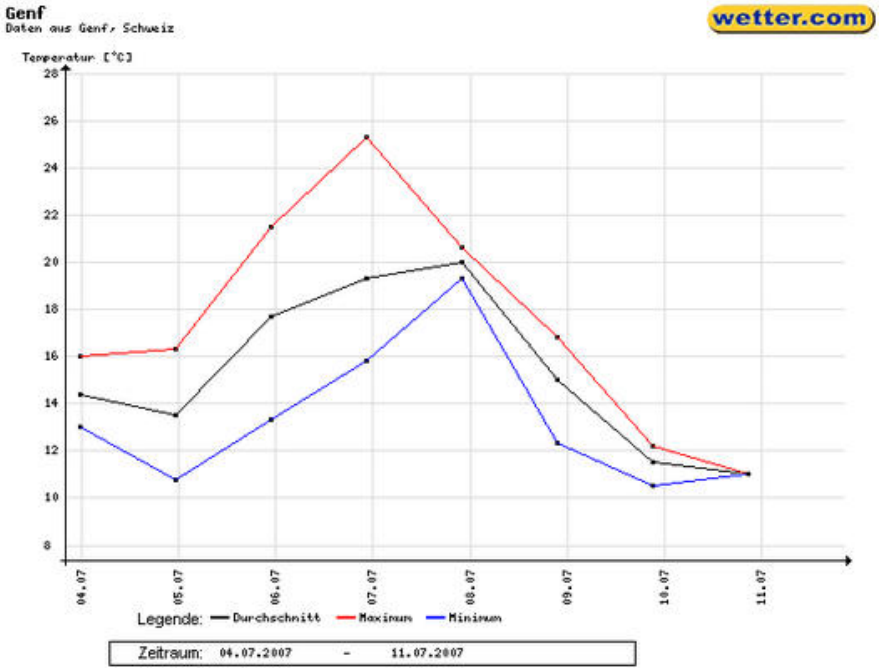


File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/11.07/2007-07-11T11:53:46-00.gif

2007-07-11 12:00 **ECAL off**

due to Paul exercise with the DAQ we turn the ECAL off

2007-07-11 12:02 Beni **temperature development in Geneva**



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/11.07/2007-07-11T12:02:30-00.png

2007-07-11 14:40 Beni **reversed fibere swap**

optical fibres are back to standard configuration

2007-07-11 16:25 Beni **DAQ optical cable**

The wrongly routed fibre cables were re-routed. Now the HCAL absorber plates shift should be possible.

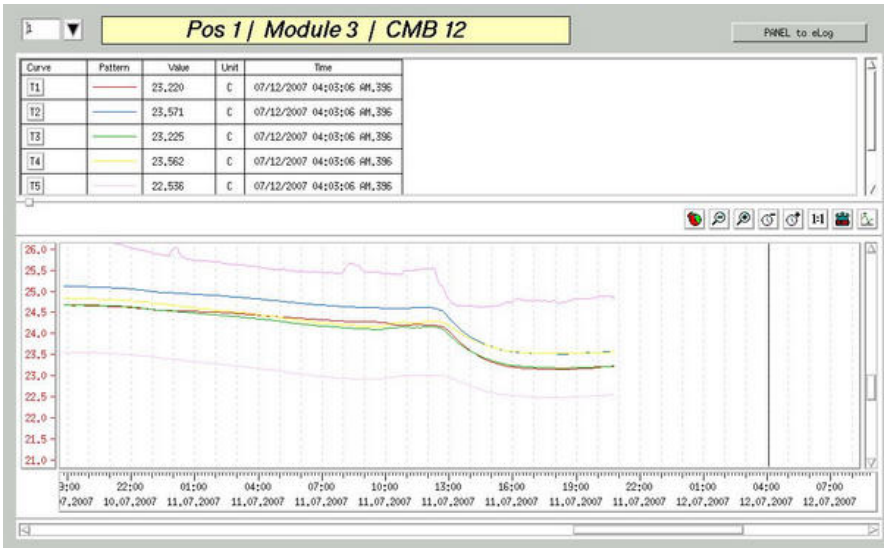
2007-07-11 20:14 Nanda **calibration runs**

330356	ahcCmNoise	-e 50000							
330357	ahcPmNoise	-e 50000							
330358	ahcCmVcalibScan								
330359	ahcPmVcalibScan								
330360	ahcGain								

high current in module 25b / HV channel 50 (469 uA)

2007-07-11 20:37 **ECAL heats first layers of HCAL**

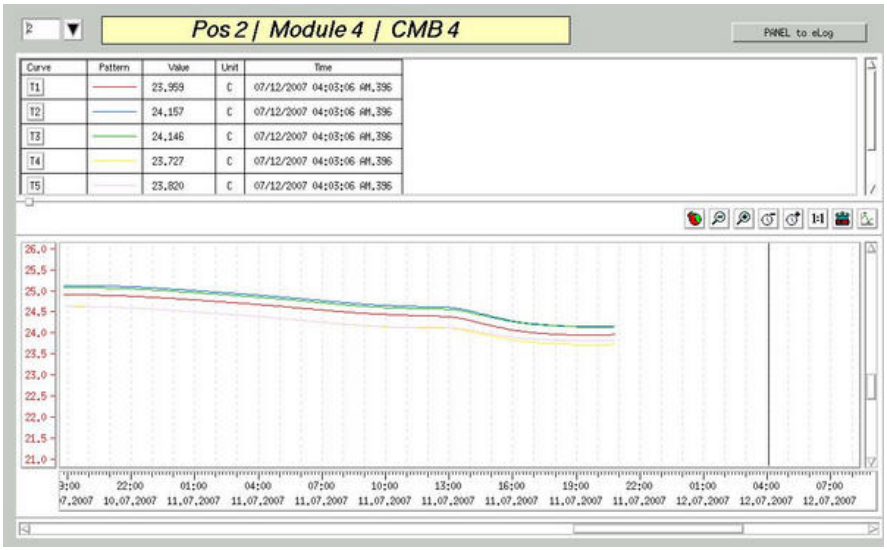
Today's temperature development of layer 1. At aprroximately 12:00 the ECAL was switched off.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/11.07/2007-07-11T20:37:02-00.jpg

2007-07-11 20:38 **ECAL heating first HCAL layers**

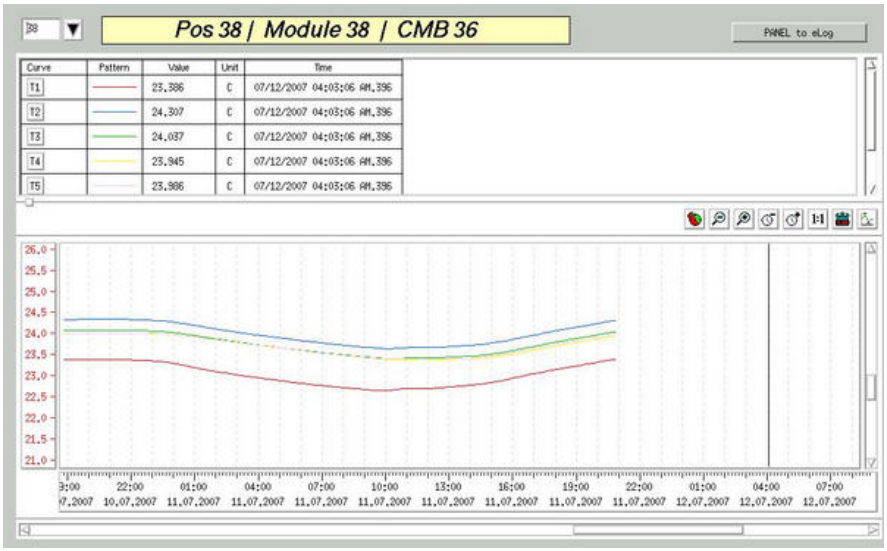
the effect can still be seen on layer 2



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/11.07/2007-07-11T20:38:02-00.jpg

2007-07-11 20:41 **layer 38 as temperature reference**

Layer 38 shows a different behaviour. So the effect seen bevor is not from a temperature change in the hall.

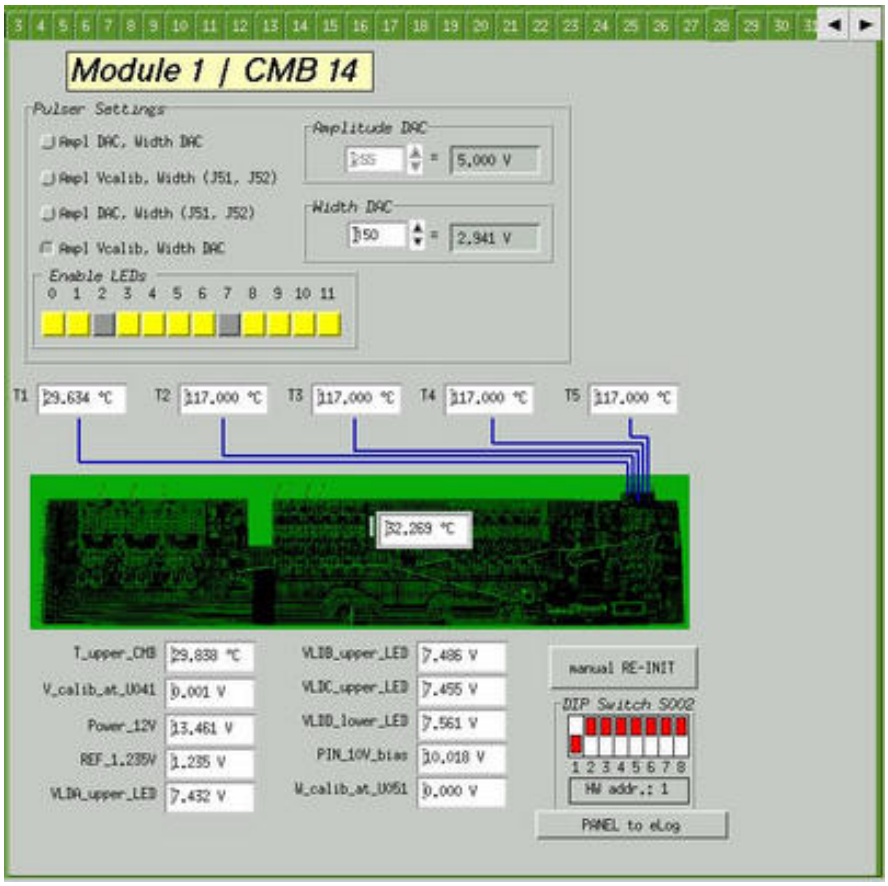


File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/11.07/2007-07-11T20:41:01-00.jpg

2007-07-11 20:51 Beni **bug in automatic pindiode mapping to database**

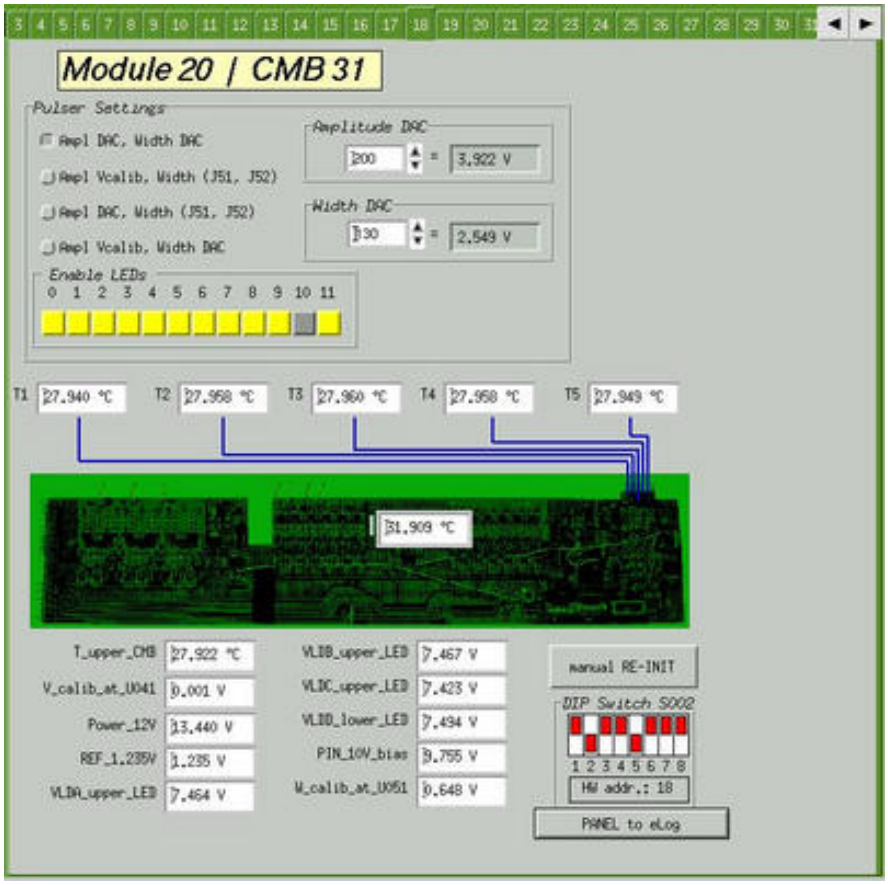
Detected an error in the automatic datbase writing of the PIN-mapping. I believe, that this is fixed now. Together with the cleanup of the AHC.cfg PIN-mapping errors yesterday the actual values should be reliable.

2007-07-11 21:06 **problematic CMB**



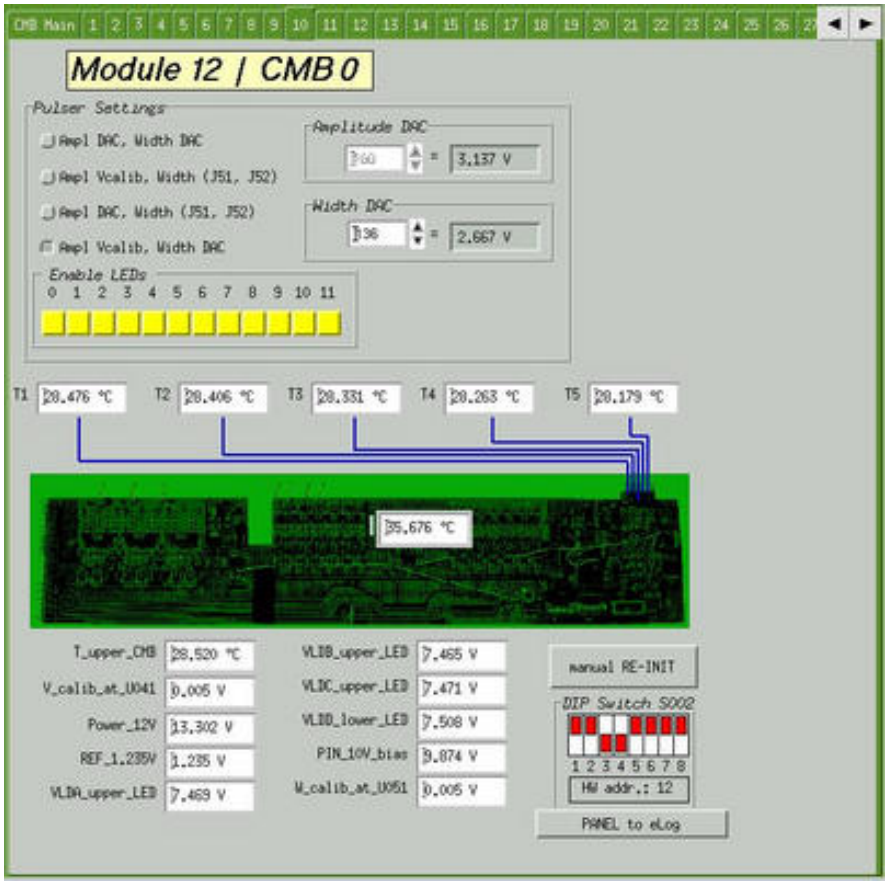
File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/11.07/2007-07-11T21:06:02-00.jpg

2007-07-11 21:09 **problematic CMB**



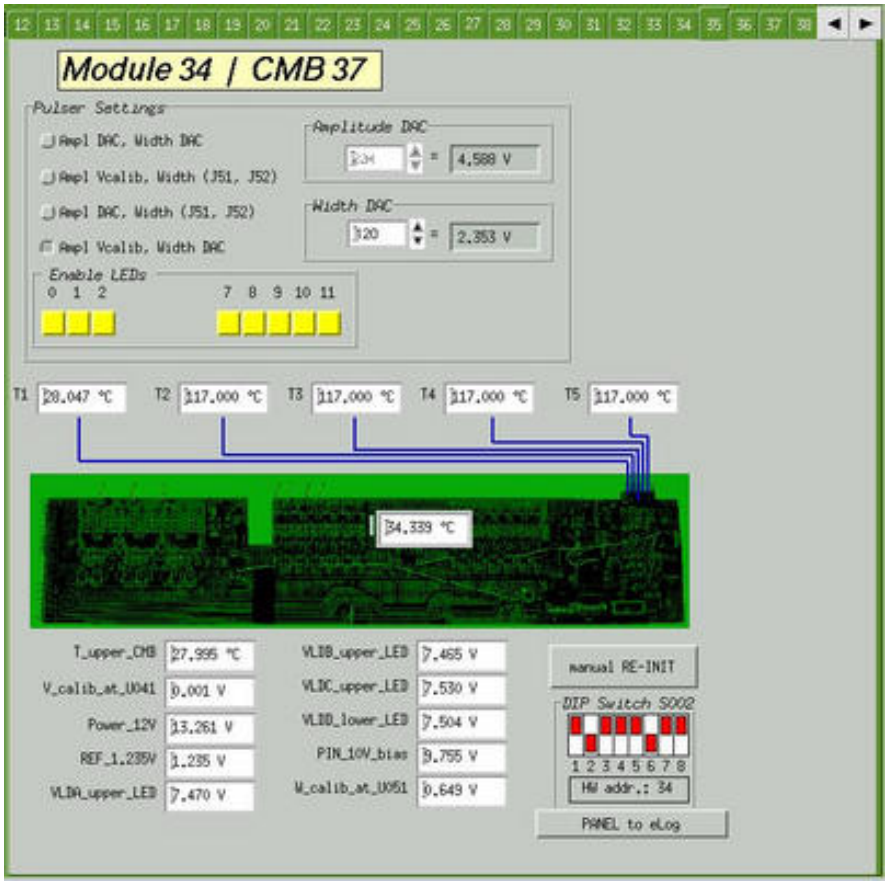
File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/11.07/2007-07-11T21:09:02-00.jpg

2007-07-11 21:10 **problematic CMB**



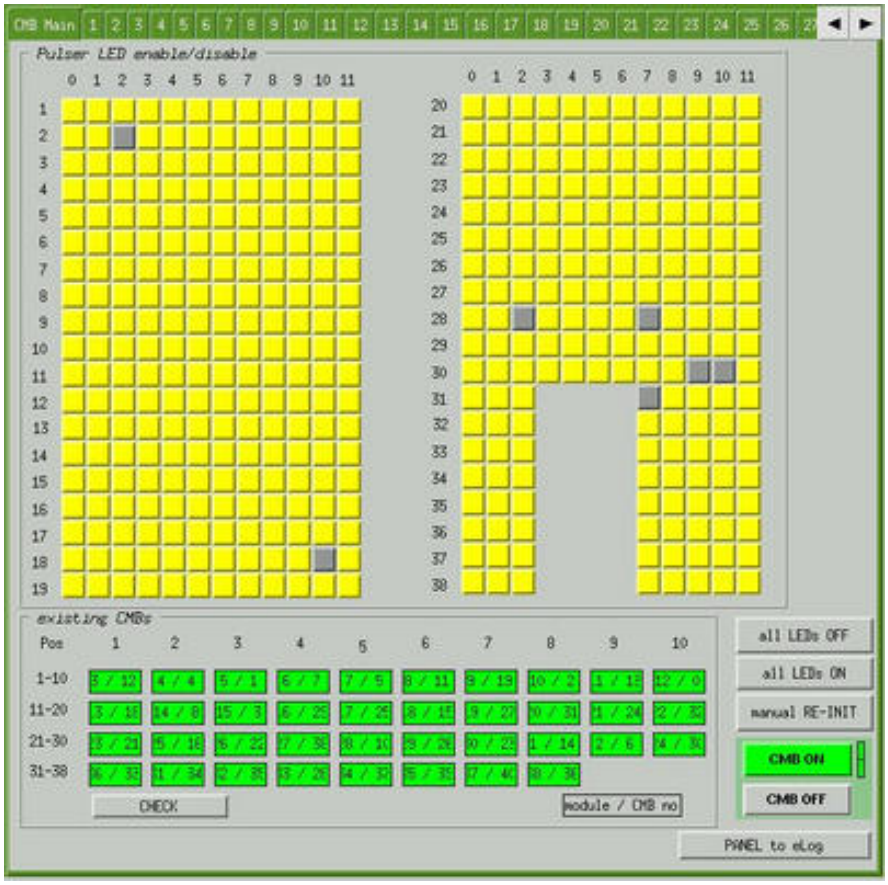
File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/11.07/2007-07-11T21:10:02-00.jpg

2007-07-11 21:13 **problematic CMB**



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/11.07/2007-07-11T21:13:02-00.jpg

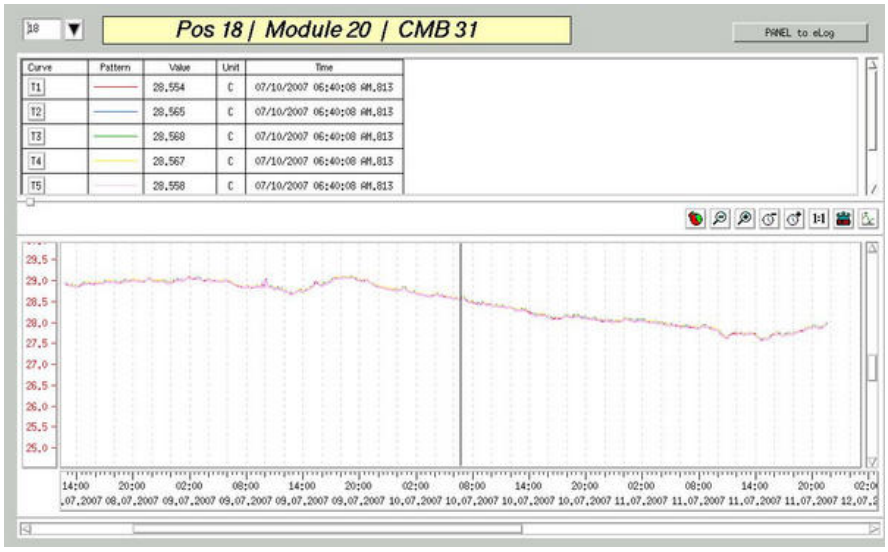
2007-07-11 21:14 **All green after check**



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/11.07/2007-07-11T21:14:02-00.jpg

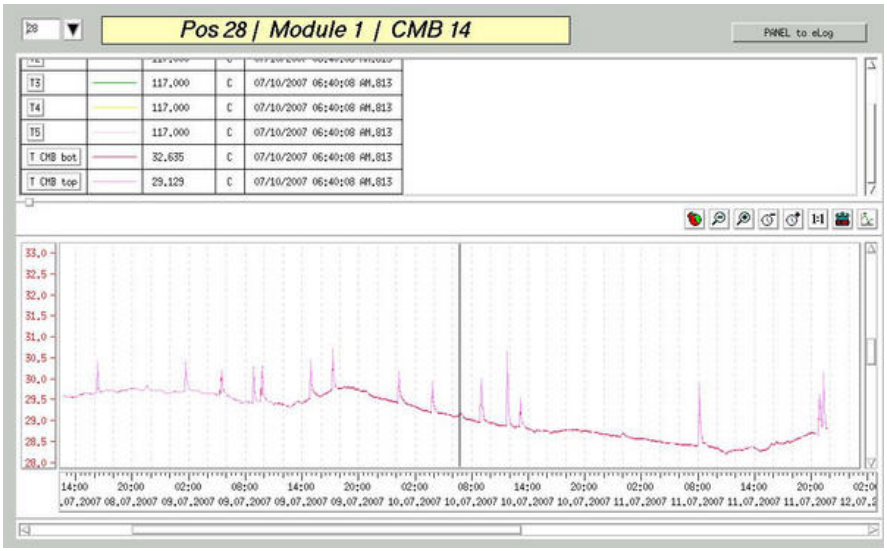
2007-07-11 21:23 **broken temperature sensor?**

All temperature sensors of module 20 show exactely the same temperature



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/11.07/2007-07-11T21:23:01-00.jpg

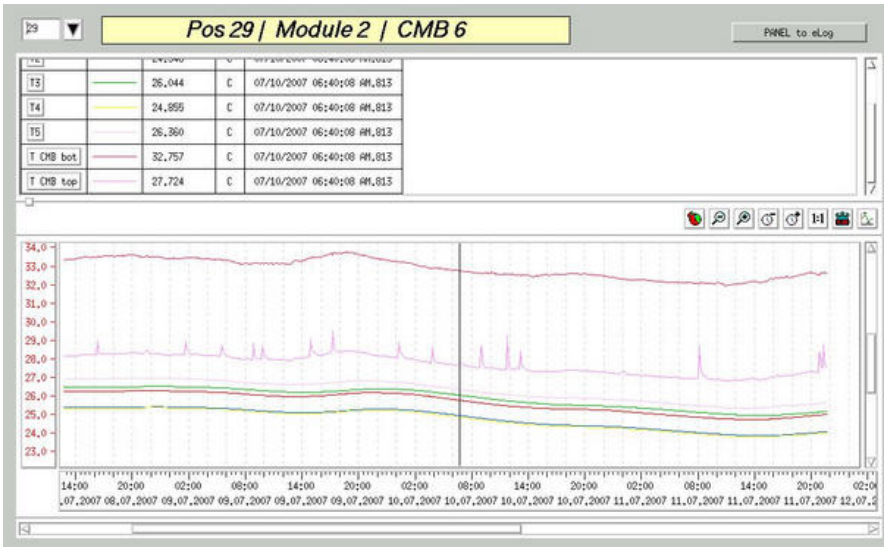
2007-07-11 21:28 **T1 = T CMB top**



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/11.07/2007-07-11T21:28:02-00.jpg

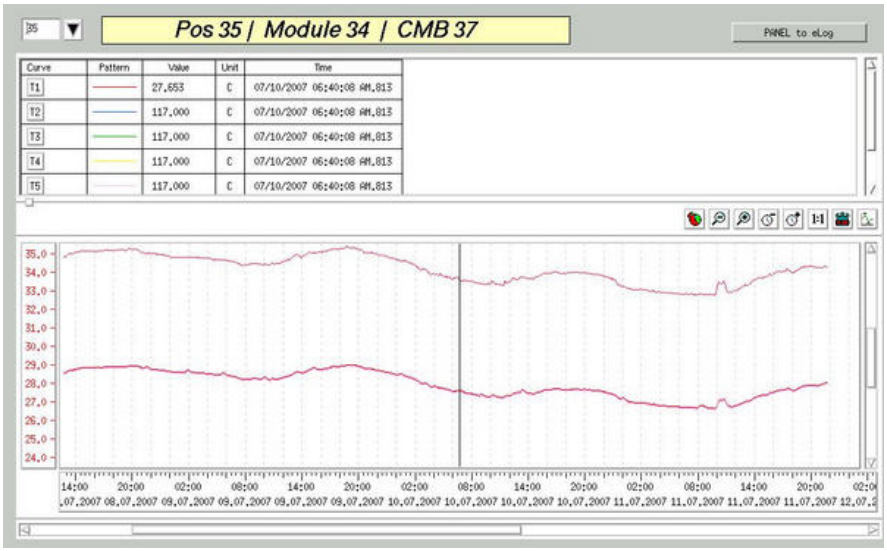
2007-07-11 21:29 caliceon@calicehost.desy.de **spikes in temperature readout**
(CALICE user)

This shows the typical temperature behaviour. Only remarkable feature are the big spikes in the readout.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/11.07/2007-07-11T21:29:02-00.jpg

2007-07-11 21:31 **T1 = T CMB top**



File: http://ttfinfo.desy.de/CALICEelog/data/2007/28/11.07/2007-07-11T21:31:02-00.jpg

2007-07-11 21:39 Beni **HV off**

We switch the HV to 10 V over night, as there is nobody who could recognise a SR loss. LV and CMB stay powered to keep the temperature distribution stable

2007-07-06 00:37 Roman **Ecal Mapping**

Please find an updated Ecal Mapping in the attachment ....

Layer	PCB	Old cable #	New cable#	slot	fe	
0	11_C	13	1A	17	4	
0			1C	5	0	
1	12_C	1	1B	15	0	
1			1D	5	0	
2	4_C	14	2A	17	5	
2			2C	5	1	
3	5_C	2	2B	15	1	
3			2D	5	1	
4	6_C	15	3A	17	6	
4			3C	5	2	
5	7_C	3	3B	15	2	
5			3D	5	2	
6	3_C	16	4A	17	7	
6			4C	5	3	
7	8_C	4	4B	15	3	
7			4D	5	3	
8	9_C	17	5A	9	8	
8			5C	5	4	
9	10_C	5	5B	15	4	
9			5D	5	4	
10	13_C	18	6A	19	1	
10			6C	5	5	
11	14_C	6	6B	15	5	
11			6D	5	5	
12	15_C	19	7A	19	2	
12	11_D		7C	5	6	
13	16_C	7	7B	15	6	
13	11_G		7D	5	6	
14	15_C	Unlabelled	8A	19	3	
14	10_D		8C	5	7	
15	19_C	8	8B	15	7	
15	10_G		8D	5	7	
16	23_C	21	9A	19	4	
16	9_D		9C	7	0	
17	25_C	9	9B	17	0	
17	9_G		9D	7	0	
18	26_C	22	10A	19	5	
18	7_D		10C	7	1	
19	27_C	10	10B	17	1	
19	7_G		10D	7	1	
20	17_C	25	11A	19	6	
20	3_D		11C	7	2	
21	20_C	11	11B	17	2	
21	3_G		11D	7	2	
22	21_C	24	12A	19	7	
22	4_D		12C	7	3	
23	22_C	12	12B	17	3	
23	4_G		12D	7	3	
24	28_C	27	13A	9	3	
24	5_D		13C	7	4	
25	30_C	30	13B	9	1	
25	5_G		13D	7	4	
26	31_C	26	14A	9	4	
26	6_D		14C	7	5	
27	32_C	29	14B	9	2	
27	6_G		14D	7	5	
28	33_C	31	15A	9	5	
28	8_D		15C	7	6	
29	29_C	28	15B	9	0	

File: http://ttfinfo.desy.de/CALICEelog/data/2007/27/06.07/2007-07-06T00:37:20-01.pdf

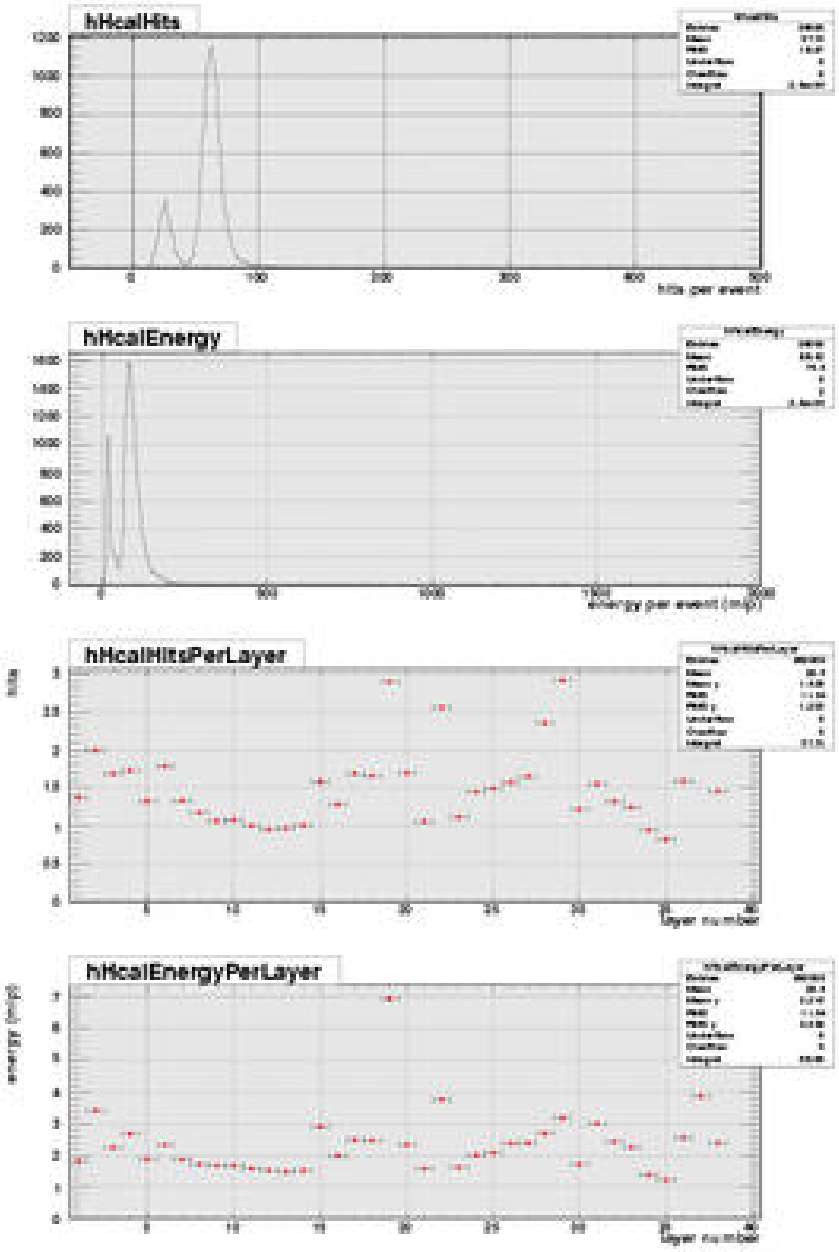
2007-07-06 01:21 Alex, Yoshi, AM **muon run, HCAL/TCMT voltage scan**

330114	beamData	100x100	mu-	combined	HCAL&TCMT, nominal-0.3V	0,0	250k events

330113 is junk run

330114
ECAL: layer 0 is back to normal at the beginning of the run.
Average event rate in Run is ~80Hz.

HCAL distribution looks weird with 2 peaks, see below.
Should be noise peak, when events have no muon (happen quite often in the display).



File: http://ttfinfo.desy.de/CALICEelog/data/2007/27/06.07/2007-07-06T01:21:39-02.eps

2007-07-06 02:12 Alex, Yoshi, AM **muon run, HCAL/TCMT voltage scan**

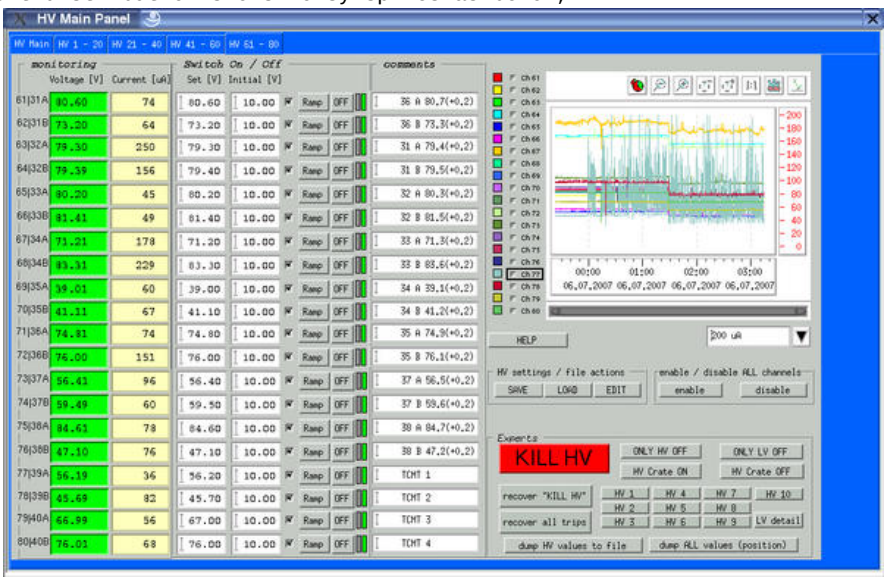
330115	beamData	100x100	mu-	combined	HCAL&TCMT, nominal-0.3V	0,0	250k events

Average event rate in Run is ~90Hz.
Ecal three noisy layers; #1, #15 and #17

2007-07-06 02:59 Alex, Yoshi, AM **muon run, HCAL/TCMT voltage scan**

330116	beamData	100x100	mu-	combined	HCAL&TCMT, nominal-0.3V	0,0	250k events

TCMT layer #7 is noisy.
TCMT1 dark current distribution shows noisy spikes as below,



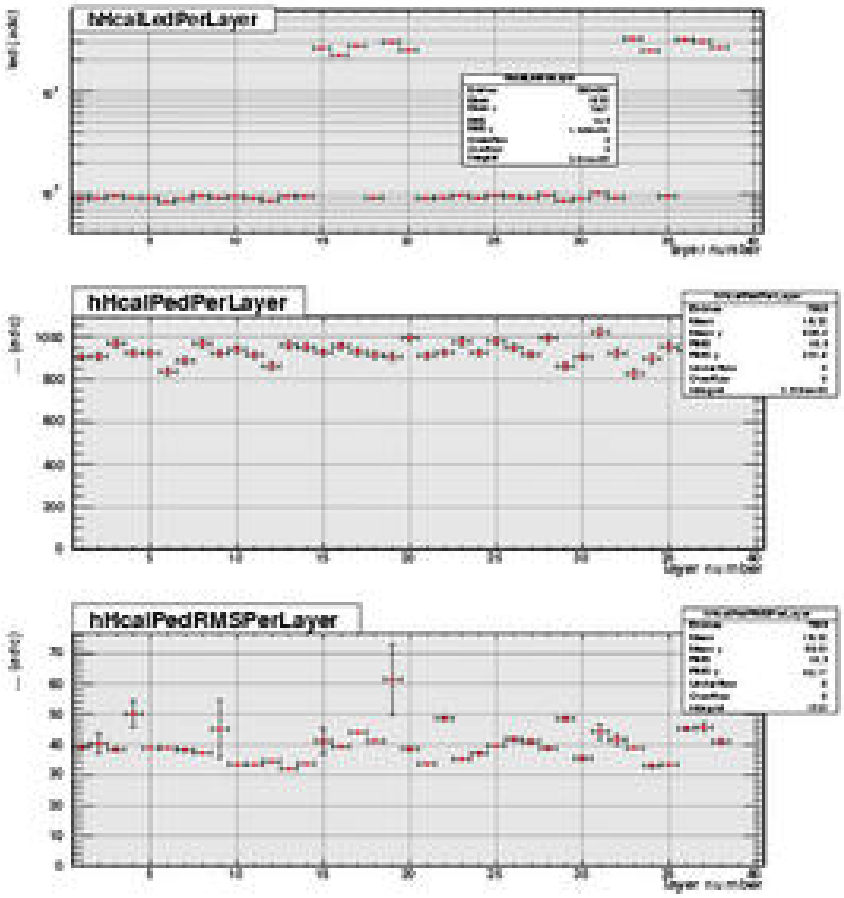
File: http://ttfinfo.desy.de/CALICEelog/data/2007/27/06.07/2007-07-06T02:59:34-03.png

2007-07-06 03:48		Alex, Yoshi, AM	**muon run, HCAL/TCMT voltage scan**				
330120	ahcGain	100x100	mu-	combined	HCAL&TCMT, nominal-0.3V	0,0	11 configurations,165k events
330119	ahcPmNoise	100x100	mu-	combined	HCAL&TCMT, nominal-0.3V	0,0	24k events
330118	beamData						only a few minutes run, junk
330117	beamData	100x100	mu-	combined	HCAL&TCMT, nominal-0.3V	0,0	250k events

2007-07-06 05:08		Alex, Yoshi, AM	**voltage +0.3**				
330121	beamData	100x100	mu-	combined	HCAL&TCMT, nominal+0.3V	0,0	250k events
330122	beamData	100x100	mu-	combined	HCAL&TCMT, nominal+0.3V	0,0	250k events
330123	beamData	100x100	mu-	combined	HCAL&TCMT, nominal+0.3V	0,0	250k events
330124	beamData	100x100	mu-	combined	HCAL&TCMT, nominal+0.3V	0,0	250k events
330125	beamData	100x100	mu-	combined	HCAL&TCMT, nominal+0.3V	0,0	22k events
330126	Reload HCAL DAC settings						
330127	ahcPmNoise	100x100	mu-	combined	HCAL&TCMT, nominal+0.3V	0,0	20k events
330128	ahcGain	100x100	mu-	combined	HCAL&TCMT, nominal+0.3V	0,0	~7 configurations

HCAL LED has high level at layer #15, #16, #17, #19, #20, #33, #34, #36, #37 and #38.

CMB Temperatures:
Module 34 / CMB 37 / Pos 35: T2=T3=T4=T5=117 °C
Module 1 / CMB 14 / Pos 28: T2=T3=T4=T5=117 °C
Module 36 / CMB 33 / Pos 31: T5=117 °C
Module 21 / CMB 24 / Pos 19: T5=117 °C
The temperature on the other sensors on these Boards is between 25 and 30°C.
All other CMB have temperatures between 25 and 30 °C for all sensors.
This was already noticed in the past and is due to wrong sensors.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/27/06.07/2007-07-06T05:08:29-04.eps

2007-07-06 08:48 Michele, Evgueny, Hengne

330129	beamData	100x100	mu-	combined	HCAL&TCMT, nominal+0.	0,0 5V	200k events	
330130	beamData	100x100	mu-	combined	HCAL&TCMT, nominal+0.	0,0 5V	14k events	

2007-07-06 09:09 Erika **ECAL hold value**

One word of explanation for the ECAL hold issue.
Following the concern of Paul we have checked the ECAL hold setting for the runs we are taking with 100x100 m. Thanks to Goetz last year the ECAL hold was left at the right value to start this year ;-) so the current value used in all the runs with 100x100 is 2 ticks which is in agreement with what we expect. An hold scan has been taken to cross check this value, but in principle all the runs we are collecting are good for ECAL calibration.

2007-07-06 10:39 Erika **change wobbling settings**

run 330130 stopped with low stat.

change of wobbling settings from +120 GeV to -80 GeV

no data for 30 min.

2007-07-06 12:07 Sven **Changes in the eLogbook**

1.) the button in the top area of the eLogbook is changed to "insert new CALICE run info"
with the corresponding functionality in the background
2.) "COMBINED_run" has been added as a new keyword in the eLogbook
3.) it's possible again to print directly the SlowControl panels and trends into the eLogbook

2007-07-06 12:25

330132	ahcPmLedVcalibScan	
330133	ahcCmLedVcalibScan	

2007-07-06 14:23

14:02 No beam, RF Problem in PS

2007-07-06 14:36 Fab/Erika **received new beam files**

Received new beam file from beam expert:

File name	Energy
H6B.510	-80GeV
H6B.512	-50GeV
H6B.514	-40GeV

Loaded 80 GeV file (H6B.510). Collimator C8 changed to select muons:
C8 set to -30 (JAW1); -27 (JAW2)

Still no beam at the moment. Started ECAL safety run.

2007-07-06 14:47 Fab **key access requested**

Key access requested by TCMT people to perform maintenance works.
ECAL turned off since work is expected to last for at least one hour.

2007-07-06 16:03 Fab/Erika **beam back**

Key access finished. Beam back.

SLOT 5 is ALIVE ! Only FE 6 is connected. Slot 5 FE7 has been moved to SLOT 7 FE7 to prevent problems
in case SLOT 5 disappears again.

•**********

WARNING: ECAL slots 5 and 7 were both not booted properly and hence completely
missing for runs 330132 to 330134 inclusive.
Paul

2007-07-06 16:35 Fab/Erika **selecting muon beam from 80 GeV file**

Loaded 80 GeV file (H6B.510). Collimator C8 changed to select muons:
C8 set to -30 (JAW1); -27 (JAW2)

Q15 and Q16 turned off to have parallel beam in H6.

One more beam file available (100 GeV): H6B.516

2007-07-06 17:15 Fab/Erika/Francois

330135	beam data	100x100	-80GeV	mu-	510	Air	Air	not in	+0.5HV	defocus beam

colimeter 8 set to -30 /-27 mm
mainly pions in beam
10x10 trig rate = 300 Hz
100x100 trig rate = 300 Hz
DAQ rate 16 Hz
low intensity beam due to booster problems

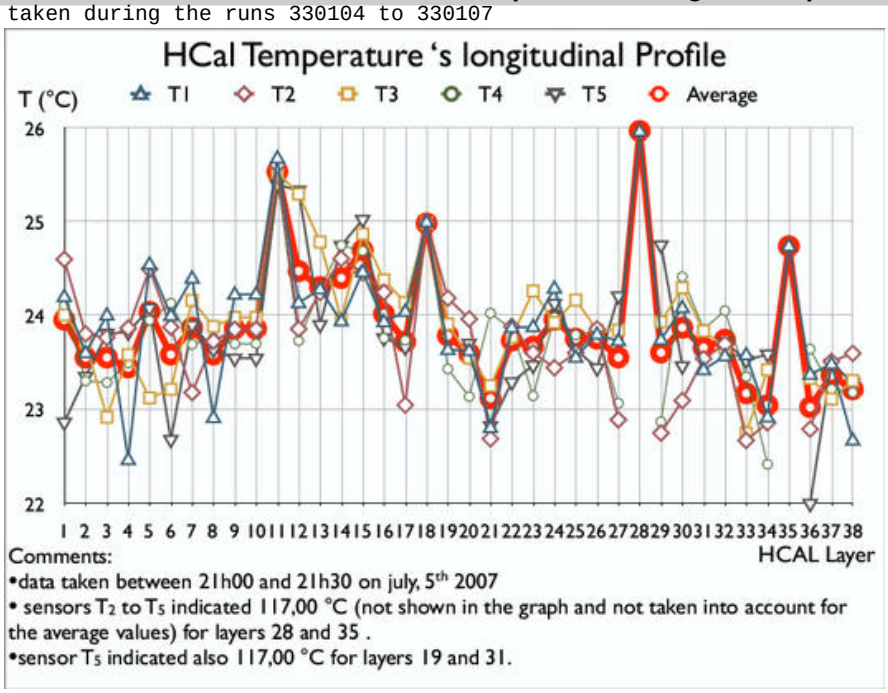
2007-07-06 17:16 Fab/Erika/Francois

330136	beam data	100x100	-80GeV	mu-	510	Air	Air	not in	+0.5HV	defocus beam

colimeter 8 set to +/- 5 mm
mainly pions in beam
10x10 trig rate = 3000 Hz
100x100 trig rate = 2200 Hz
DAQ rate 42 Hz
low intensity beam due to booster problems

2007-07-06 18:52 Francois **HCal Temperature's longitudinal profile**

These data were taken during the runs 330104 to 330107



File: http://ttfinfo.desy.de/CALICEelog/data/2007/27/06.07/2007-07-06T18:52:00-02.pdf

2007-07-06 19:03 Fab/Erika **beam back. still tuning**

Beam back. Still continue the tuning to obtain a good, wide, muon beam.

330141	beam data	100x100	-80GeV	mu-	combined	+0.5HV	

Beam file loaded: H6.510
Collimator 1: -20 (JAW1) 20 (JAW2)
Collimator 2: -5 (JAW1) 5 (JAW2)
Collimator 5: -20 (JAW1) 20 (JAW2)
Collimator 6: -20 (JAW1) 20 (JAW2)
Collimator 8: -20 (JAW1); -15 (JAW2)
No absorber

Q12, Q15, Q16: 0 current

DAQ rate: 80 Hz
10x10 coincidence 3600 pps
100x100 13500 pps

•**********

WARNING: ECAL slot 17 was not booted correctly and hence completely missing
for runs 330135 to 330142 inclusive. All these runs are junk for the ECAL.
Paul

2007-07-06 19:33 Fab/Erika/Francois **muon run. beam tuned. good run**

330142	beamData	100x100	-80GeV	mu-	510	Air	air	off	good muon run, HV+0.5

DAQ rate: 88 Hz
10x10 rate 3700 pps
100x100 rate 15000 pps

Note: values of collimators and quadrupoles changed wrt beam reference file
(see previous posting for run 330141)

stop the run with 132 000 events

2007-07-06 19:35 Fab/Francois **NEW WAY TO INSERT NEW RUN INFO**

Please from now on use the 'insert new CALICE run info' button on top of the WEB page
to insert a new run in the elog.

You have to provide the following information:

Run Number (33xxxx)
Run Type (beamData, emcNoise...)
Trigger = Run Option (10x10, 20x20, 100x100)
Energy (e.g. -80 Gev, etc.)
Beam type (e.g. muon/electron/pion)
File Name (just insert file number: e.g. for 'H6B.510' just insert '510')
Absorber (e.g. air, Pb, etc.)
Target (e.g. air, etc.)
Cherenkov status (e.g. off, on - if on, write pressure)
Comment (e.g. good run)

There is also a Comment(2) box, however this at present only allows you to write one line.
To add more comments just save your entry and then re-edit it from the main browser page.

2007-07-06 19:51 Fab/Erika/Francois

key access to reboot CRC in slot 17 ECAL
It is working now

2007-07-06 19:55 Erika/Francois/Sacha/Jean-Yves

330143	beamData	100x100	-80GeV	mu-	510	Air	air	off	good muon run,HV+0.5

DAQ rate: 86 Hz
10x10 rate 9200 pps
100x100 rate 16500 pps

C8 set to -30 (JAW1); -27 (JAW2) after 140000 events because 20x20 rate = 13000 pps (> 11000)

now :

10x10 rate 8200 pps
20x20 rate 11000 pps
100x100 rate 15300 pps

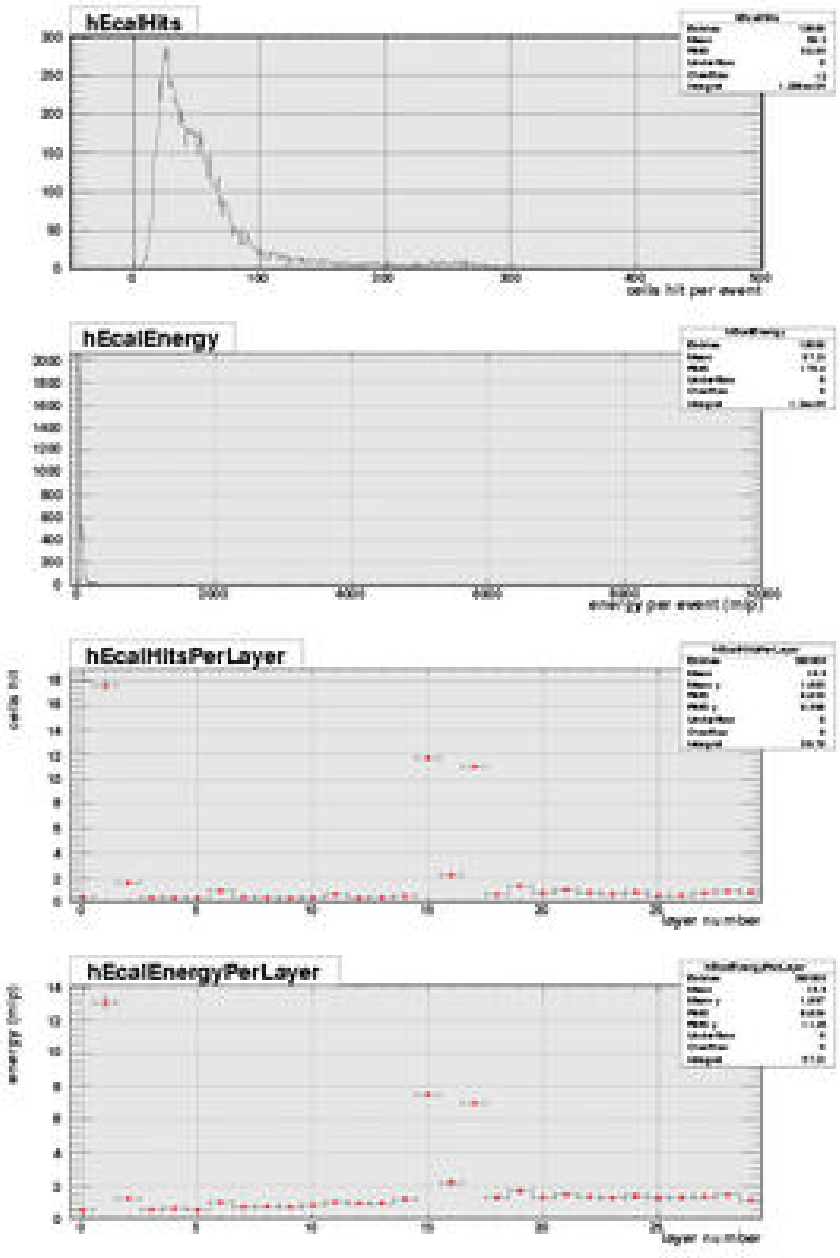
stopped after 170 000 events
No beam from CPS

2007-07-06 20:34 Erika/Francois/Sacha/Jean-Yves

330144	beamData	100x100	-80GeV	mu-	510	Air	air	off	good muon run,HV+0.5

DAQ rate: 83 Hz
10x10 rate 8100 pps
20x20 rate 11100 pps
100x100 rate 16000 pps

Layers 1, 15 and 17 of the ECAL are still noisy



File: http://ttfinfo.desy.de/CALICEelog/data/2007/27/06.07/2007-07-06T20:34:45-02.eps

2007-07-06 21:21			Francois/Sacha/Jean-Yves						
330145	beamData	100x100	-80GeV	mu-	510	Air	air	off	good muon run,HV+0.5

DAQ rate: 86 Hz
10x10 rate 8800 pps
20x20 rate 11600 pps
100x100 rate 16800 pps

250k events

2007-07-06 22:09			Francois/Sacha/Jean-Yves						
330146	beamData	100x100	-80GeV	mu-	510	Air	air	off	good muon run,HV+0.5

DAQ rate: 89 Hz
10x10 rate 8800 pps
20x20 rate 11500 pps
100x100 rate 16700 pps

100k events

2007-07-06 22:27 Francois/Sacha/Jean-Yves

330148	ahcPmNoise	100x100	-80GeV	mu-	510	Air	air	off	

DAQ rate: 92 Hz
10x10 rate 8800 pps
20x20 rate 11500 pps
100x100 rate 16700 pps

23k events

no run #330147
What we've done :
after run330146
-> click 'stop run' button
-> change run type to ahcPmNoise
-> click on 'start run'

•***

You were running a "sequence" of runs of type beamData which would continue
indefinitely unless interrupted. Hitting "stop run" stops the run but not the
sequence; for the sequence, use the sequenceEnd command. Hence, the DAQ went
to the next run in the sequence, which was 330147. Then, clicking "start run"
stopped this run almost immediately and started yet another, 330148. See
  Log1183744318.out_icalice00
for details. Just doing the "start run" is all that is needed.

Run 330147 contains just the runStart and runEnd records and so is junk.

If you want the previous run to finish at the right time (e.g. after the
specified number of events) rather than immediately, then use the non-interrupt
feature when you "start run" the run to follow it. This is the -i option of
the command runStart which should also be available in the run control GUI
(or should be added if it isn't!).
Paul

•***

Thank you for these explanations :)

Francois

2007-07-06 22:33 Francois/Sacha/Jean-Yves

330149	ahcGain	100x100	-80GeV	mu-	510	Air	air	off	

DAQ rate: 96 Hz
10x10 rate 8800 pps
20x20 rate 11500 pps
100x100 rate 16700 pps

165k events

2007-07-06 23:01 Francois/Sacha/Jean-Yves

330150	beamData	100x100	-80GeV	mu-	510	Air	air	off	muon run

HCal configuration file changed to CERN_030707_+0.7V.txt

DAQ rate: 83 Hz
10x10 rate 8800 pps
20x20 rate 11500 pps
100x100 rate 16600 pps

250k events

2007-07-06 23:47 Francois/Sacha/Jean-Yves

330152	beamData	100x100	-80GeV	mu-	510	Air	air	off	muon run
330151	beamData	100x100	-80GeV	mu-	510	Air	air	off	muon run

DAQ rate: 99 Hz
10x10 rate 8900 pps
20x20 rate 11700 pps
100x100 rate 17100 pps

250k events for each

2007-07-07 01:21 Yoshi/Tao/Alex

330156	gainRun	100x100	-80GeV	mu-	510	Air	air	off	gain run
330155	ahcPmNoise	100x100	-80GeV	mu-	510	Air	air	off	noise run
330154	beamData	100x100	-80GeV	mu-	510	Air	air	off	junk run
330153	beamData	100x100	-80GeV	mu-	510	Air	air	off	muon run, 250k events

CERN_030707_+0.7V.txt

2007-07-07 03:15 Yoshi/Tao/Alex **muon run**

330157	beamData	100x100	-80GeV	mu-	510	Air	air	off	muon run, 250k events
330158	beamData	100x100	-80GeV	mu-	510	Air	air	off	muon run, 250k events
330159	beamData	100x100	-80GeV	mu-	510	Air	air	off	muon run, 250k events
330160	beamData	100x100	-80GeV	mu-	510	Air	air	off	muon run, 250k events
330161	ahcPmNoise	100x100	-80GeV	mu-	510	Air	air	off	noise run
330162	ahcGain	100x100	-80GeV	mu-	510	Air	air	off	gain run

CERN_030707_nominalV.txt

Sometimes Magnet QUAD11 status differs a little (~ +0.5) from BeamRef

Average event rate in Run ~100Hz

2007-07-07 05:40 Yoshi/Tao/Alex **beamData run**

330163	beamData	100x100	-80GeV	mu-	510	Air	air	off	muon run, 250k events
330164	beamData	100x100	-80GeV	mu-	510	Air	air	off	muon run, 250k events
330165	beamData	100x100	-80GeV	mu-	510	Air	air	off	muon run, 250k events
330166	beamData	100x100	-80GeV	mu-	510	Air	air	off	muon run, 250k events

CERN_030707_+0.3V.txt

2007-07-07 08:22 Evgeny/Cristina/Michal

330168	ahcPmNoise	100x100	-80GeV	mu-	510	air	air	off	noise run stopped, red lights
330169	ahcPmNoise	100x100	-80GeV	mu-	510	air	air	off	noise run, 20 kEvt
330170	ahcGain	100x100	-80GeV	mu-	510	air	air	off	gain run, finished, 11 configurations

HCAL HV: set to +0.3V, file CERN_030707_+0.3V.txt

2007-07-07 09:08 Kurt **TCMT DACs**

DAC change in TCMT 1 file chip 4 channel 1 value changed from 70 to 255 to turn OFF SiPM.
This was an attempt to turn off a noisy channel that may be causing layer 7 to have an incorrectly high energy.

2007-07-07 09:17 Kurt/Cristina/Michal/Erika/Evgeny **beam setup for -80 GeV pions**

Loaded file H6B.510

Collimators closed (a bit) because rate is too high)

Coll	JAW1	JAW2
C1	-5	5
C2	-2	2
C3	-2.5	2.5
C5	-4.5	4.5
C6	-4	4
C8	-2.5	2.5
C9	-35	35
C10	-5	5
C11	-5	5

Good rate of pions:

10x10 7500 pps
20x20 8500 pps
100x100 970 pps

Started beam tuning run using above configuration.
DAQ changed for 10x10 trigger

2007-07-07 09:42 Fab/Erika/Cristina/Michal/Evgeny **tuning run:pions -80 GeV**

330171	beamData	10x10	-80GeV	pi-	510	air	air	off	tuning beam for pion run

Movable stage in (0,0) position

potential problem with layers 15 and 17 of ECAL - the number of hits ok, but the energy nearly 0

HCAL chip slot 7 chip 76 drifted to negative values

2007-07-07 09:53 Fab/Erika/Cristina/Michal/Evgeny

330172	beamData	10x10	-50GeV	pi-	512	air	air	off	pion run

Movable stage in (0,0) position
trigger rate 10x10: 11k
DAQ rate: 70 Hz

2007-07-07 10:11 Kurt/Cristina/Michal/Erika/Evgeny **beam setup: -50 GeV pions**

Loaded file H6B.512

Collimators setting not loaded from beam file (only magnets).
Settings for collimators modified from previous file:

Coll	JAW1	JAW2
C1	-5	5
C2	-2	2
C3	-2.5	2.5
C5	-5	5
C6	-7	7
C8	-2.5	2.5
C9	-35	35
C10	-5	5
C11	-7	7

some electron contamination is visible from the on-line monitoring.
Try adding an absorber to remove it. Run 330172 stopped

Added 4 mm lead absorber. Started run 330173.
Electron contamination disappeared. We are happy with the settings now.

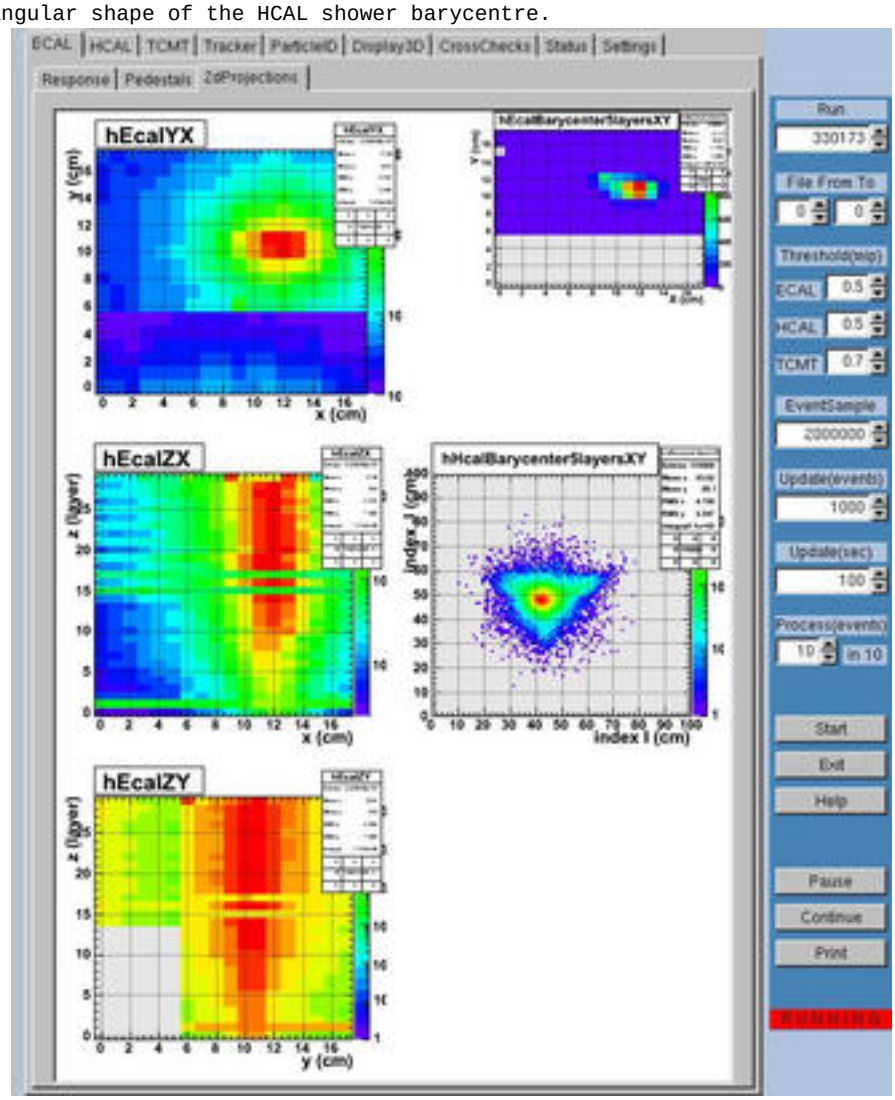
2007-07-07 10:24 Cristina/Michal/Evgeny **Beam tuning: -50 GeV pions**

330173	beamData	10x10	-50GeV	pi-	512	4mm lead	air	off	beam tuning

									for 50 GeV pions (-)

ECAL position shifted compared with HCAL: ~ -30mm in x, -35mm in y
ECAL layers 1,2, 15, 17 noisy : large nb of hits, high energy for first two layers, no energy for 15, 17.

Notice the triangular shape of the HCAL shower barycentre.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/27/07.07/2007-07-07T10:24:20-04.jpg

2007-07-07 10:27 Niels **AHCAL DAC update**

There now is a script available on calice00 to automatically retrieve the latest version of AHCAL DAC files and updating all internal links on the DAQ system.

Usage:

- log on to calice00 and change directory to ~/online
- execute: updateDACfiles.ch <yyyymmdd> , with the tag yyyymmdd being the date by convention
- done ;)

The new files will be stored in the directory ~/online/cfg/ahcal/yyyymmdd/ , thus old files are kept for later reference.

2007-07-07 11:05 Cristina/Michal/Ev **beam tuning,-40 GeV pions**

330174	beamData	10x10	-40GeV	pi-	514	4mm Pb	air	off	tuning beam file for 40 GeV pi-

DAQ average rate: 73 Hz
120k evts

2007-07-07 11:29 Cristina/Michal/Evgeny

330174	beamData	10x10	-40GeV	pi-	516	4mm Pb	air	off	tuning beam file for 40 GeV pi-

DAQ average rate: 73 Hz
120k evts

2007-07-07 11:36 Evgeny/Cristina/Michal/Erika/Fab **beam setup: 100 GeV pions**

Loaded file H6B.516

Collimators setting not loaded from beam file (only magnets).
Settings for collimators modified from previous file:

Coll	JAW1	JAW2
C1	-5.3	5.3
C2	-2	2
C3	-2.5	2.5
C5	-5	5
C6	-5	5
C8	-2.5	2.5
C9	-35	35
C10	-5	5
C11	-5	5

Absorber: 4mm Pb
Target: air

10x10: 10800 pps
20x20: 11500 pps
100x100: 1450 pps

2007-07-07 11:51 Evgeny/Cristina/Michal **beam tuning: -100 GeV pions**

330175	beamData	10x10	-100GeV	pi-	516	4mm Pb	air	off	tuning beam parameters for 100 GeV pi-

Stopped after 80K events

2007-07-07 12:41 Fab/Erika **beam tuning: -50 GeV electrons**

extracted 50 GeV e- beam file from 80 GeV pi-
File name H6B.530 (extracted from H6B.510)

Opened position collimators: C1, C10, C5 (-20, 20) - h position
C11, C6 (-20, 20) - v position
Opened momentum collimators: C2 (-4, 4) - h momentum
C3,C8 (-4, 4) - v momentum

Changed quadrupoles:
Q6 -> 130
Q7 -> - 70
Q8 -> - 45
Q11 -> -140
Q12 -> 50.6

Beam satisfactory. Started run 330176

2007-07-07 13:07 Evgeny/Cristina/Michal

330176	beamData	10x10	-50GeV	e-	530	6mm Pb	air	off	tuning beam parameters for 50 GeV e-

Stopped after 90K events since shower partially leaking from the ECAL side

2007-07-07 13:20 Evgeny/Cristina/Michal

330177	beamData	10x10	-50GeV	e-	530	6mm Pb	air	off	tuning beam parameters for 50 GeV e-

junk RUN

2007-07-07 13:24 Evgeny/Cristina/Michal

330178	beamData	10x10	-50GeV	e-	530	6mm Pb	air	off	tuning beam parameters for 50 GeV e-

junk RUN

2007-07-07 13:25 Evgeny/Cristina/Mike **ECAL re-centered on the beam (2cm shift)**

stage shifted from x=4750 to 4950

2007-07-07 13:29 Evgeny/Cristina/Mike **50 GeV e- run**

330179	beamData	10x10	-50GeV	e-	530	6mm Pb	air	off	250K evts

DAQ rate 88Hz
HCAL voltage +.3V

2007-07-07 13:56 Evgeny/Cristina/Mike **ECHAL shifted again by 2 cm (beam centered)**

stage position shifted from 4950 to 5150

2007-07-07 14:11 Evgeny/Cristina/Mike **50 GeV e- run**

330180	beamData	10x10	-50GeV	e-	530	6mm Pb	air	off	144K evts

DAQ rate 88Hz
HCAL voltage +.3V
run stopped since the beam stopped

2007-07-07 14:45 Evgeny/Cristina/Mike **ahcPmNoise run**

330181	ahcPmNoise	10x10	off	off	530	6mm Pb	air	off	20K evts, HCAL voltage +.3V
330182	ahcPmNoise	10x10	off	off	530	6mm Pb	air	off	20K evts, nominal voltage
330183	ahcCmNoise	10x10	off	off	530	6mm Pb	air	off	20K evts, nominal voltage
330184	emcNoise	10x10	off	off	530	6mm Pb	air	off	50K evts, HCAL voltage +.3V
330185	ahcCmNoise	10x10	off	off	530	6mm Pb	air	off	20K evts, HCAL voltage +.3V
330186	emcNoise	10x10	off	off	530	6mm Pb	air	off	50K evts, HCAL voltage +.3V

2007-07-07 17:36 Kurt **Modification of TCMT DAC file**

Modified DAC_tcmt1_07072007.dat DAC file to turn off chip 0 channel 13 (value changed from 116 to 255) which seems to be causing a incorrect high MIP energy reading in layer 7. Chip 4 channel 1 which was turn off earlier by mistake has been turned back on (value changed back from 255 to 70).

2007-07-07 18:30 Erika/Fab/Paul **fix of slot 5**

ECAL slot 5 has been fixed by disconnecting and reconnecting multiple times the trigger connection between ECAL and HCAL VME.

2007-07-07 18:32

330187	beamData	JUNK							
330188	beamData	10x10	-50GeV	e-	530	6mm Pb	air	off	20000 evts, JUNK
330189	beamData	10x10	-50GeV	e-	530	6mm Pb	air	off	~70 K evts

2007-07-07 18:35 Fab/Erika/Paul

ECAL slot 5 is now being read out from runs 330188 onwards

2007-07-07 19:22 Francois, Sacha, Jean-Yves

330190	beamData	10x10	-50GeV	e-	530	6mm Pb	air	off	JUNK
330191	beamData	10x10	-40GeV	e-	531	6mm Pb	air	off	250k

DAQ rate 80 Hz
10x10 2400 pps
20x20 3200 pps
100x100 out of the beam line

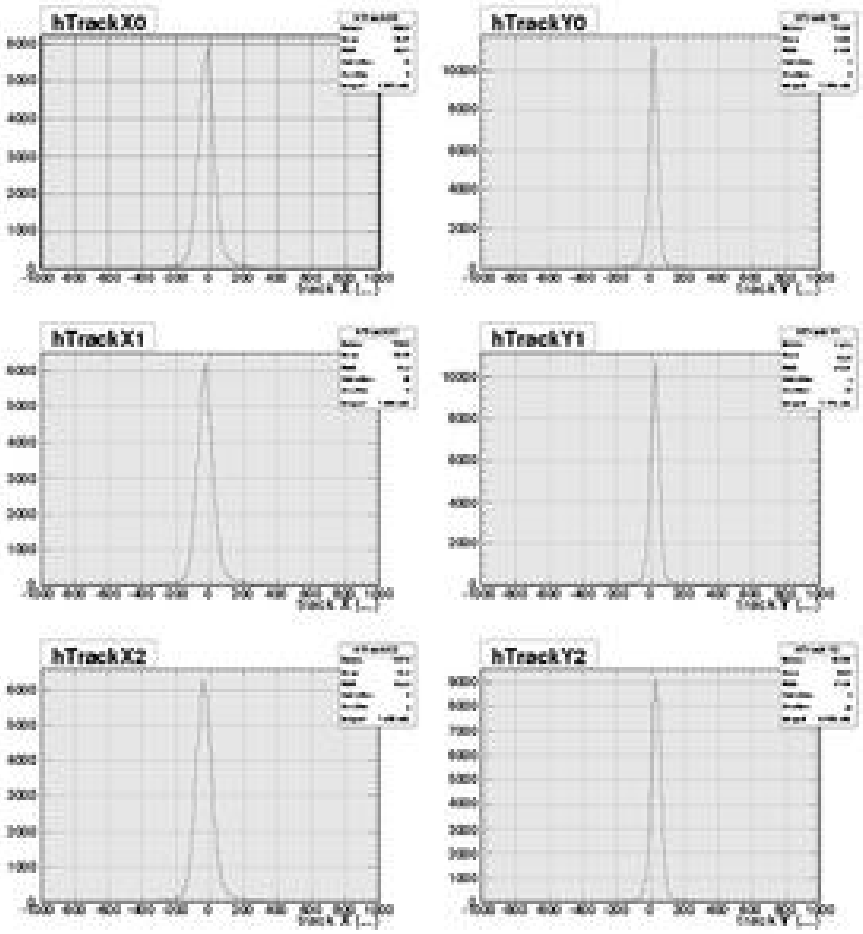
2007-07-07 20:15 Francois, Sacha, Jean-Yves

330192	beamData	10x10	-80GeV	pi-	510	air	4mm Pb	off	90k

DAQ rate 65 Hz
10x10 7200 pps
20x20 7700 pps
100x100 out of the beam line

no beam after 90k events

==========
Here's one picture of the drift chambers :



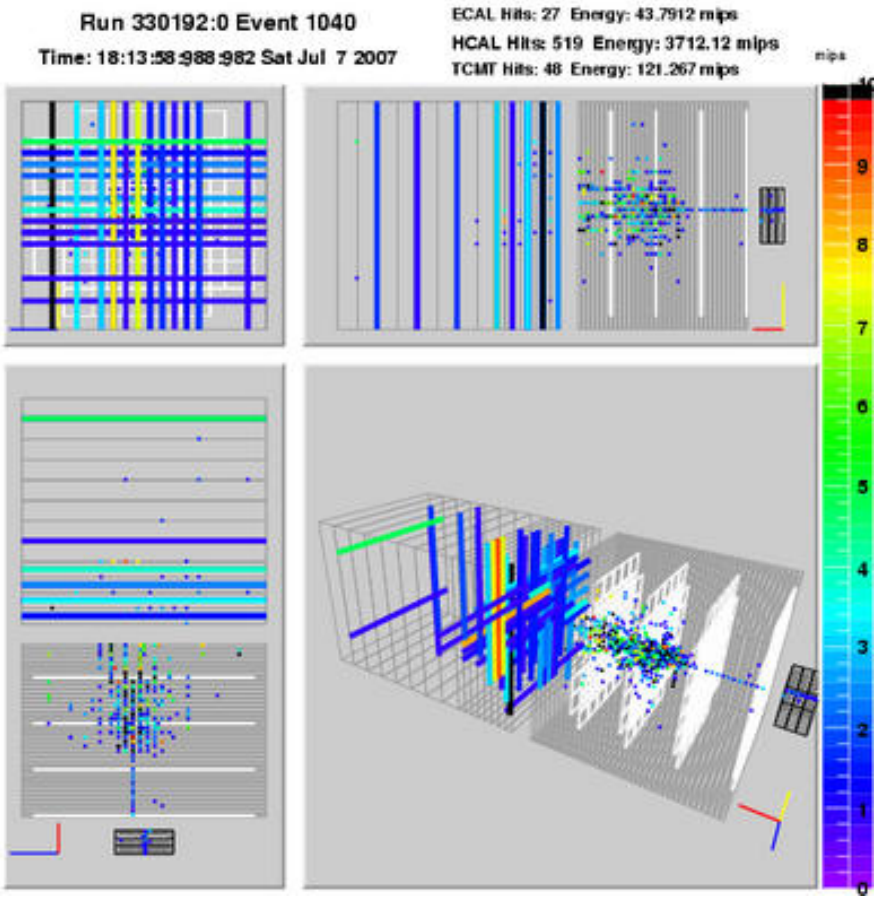
File: http://ttfinfo.desy.de/CALICEelog/data/2007/27/07.07/2007-07-07T20:15:33-07.eps

2007-07-07 21:15 Roman/Marcel **changed power cables of layer 15 and 17**

```
Changed power cables of layers 15 (15-7) and 17 (17-0).
This reduced the noise in both of them, plus the one of layer one (15-0) to a normal level.
```

2007-07-07 21:26 Francois, Sacha, Jean-Yves

```
3d picture of one event of run 330192 :
```



File: http://ttfinfo.desy.de/CALICEelog/data/2007/27/07.07/2007-07-07T21:26:37-00.eps

2007-07-07 21:42 Francois, Sacha, Jean-Yves

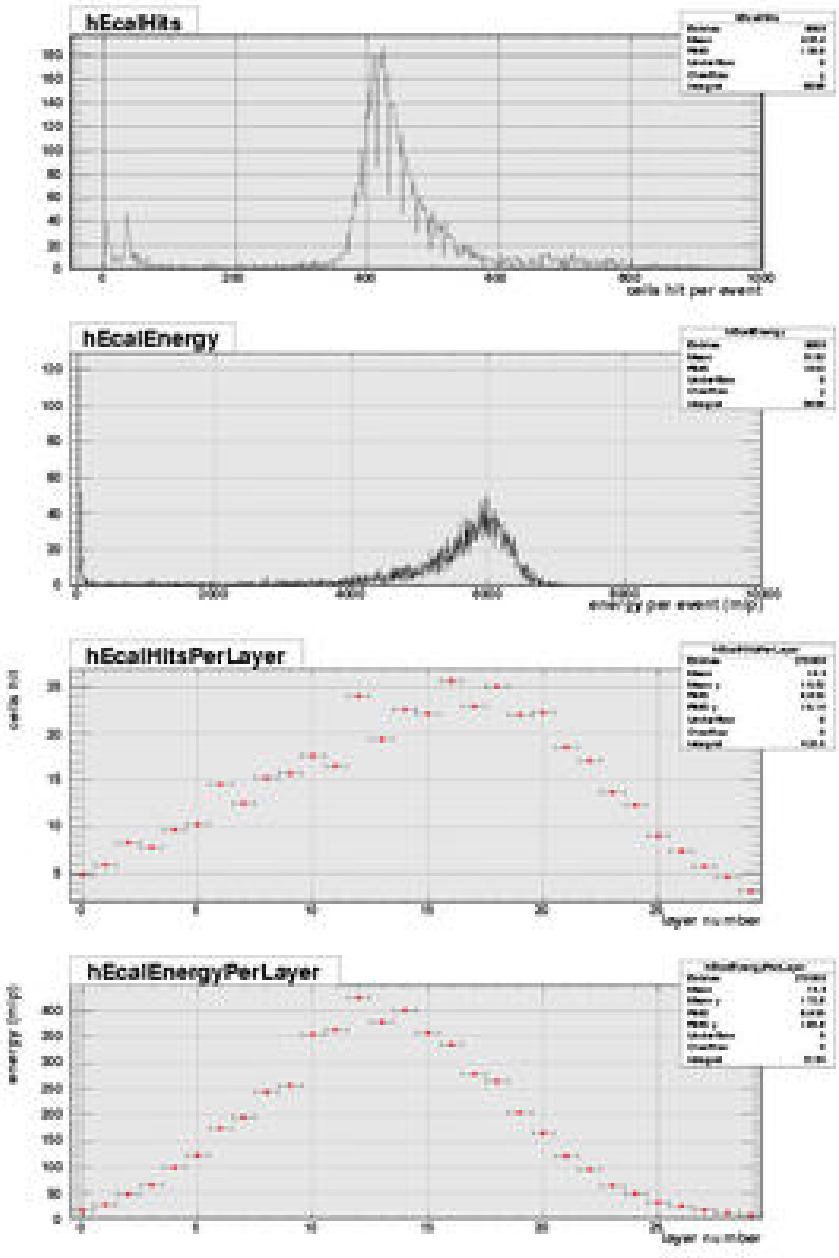
330193	beamData	10x10	-80GeV	pi-	510	air	4mm Pb	off	10k

run stopped to test the changes in ECAL.

2007-07-07 21:49 Francois, Sacha, Jean-Yves, Marcel, Roman

330194	beamData	10x10	-50GeV	e-	530	6mm Pb	air	off	10k

problem with layers 15 and 17 of the ECAL resolved by echanging the corresponding power cables.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/27/07.07/2007-07-07T21:49:49-01.eps

2007-07-07 21:59 Francois, Sacha, Jean-Yves

330195	beamData	10x10	-80GeV	pi-	510	air	4mm Pb	off	160k

```
10x10   6300 pps
20x20   6600 pps
100x100  out of the beam line
```

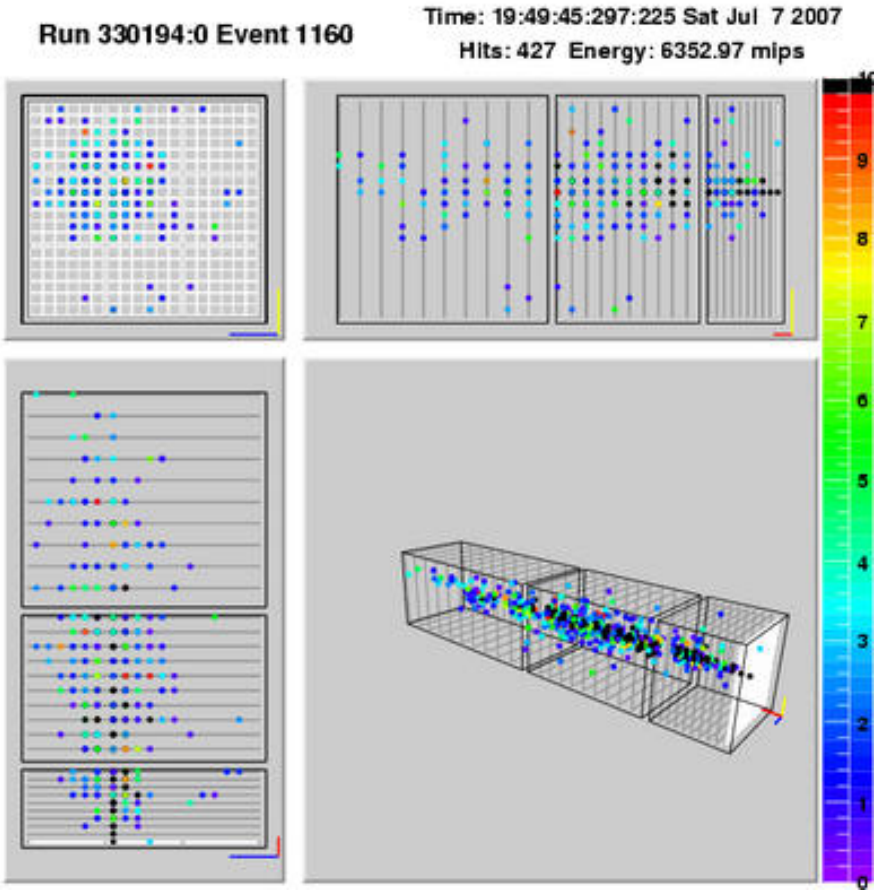
2007-07-07 22:37 Francois, Sasha, Jean-Yves

330196	beamData	10x10	-50GeV	pi-	512	air	4mm Pb	off	250k

```
10x10   4600 pps
20x20   4800 pps
100x100  out of the beam line
```

2007-07-07 22:42 Francois/Sacha/Jean-Yves

run 330194 :shower shape of an electron in ECAL



File: http://ttfinfo.desy.de/CALICEelog/data/2007/27/07.07/2007-07-07T22:42:28-00.eps

2007-07-07 23:34 Francois, Sasha, Jean-Yves

330197	beamData	10x10	-40GeV	pi-	514	air	4mm Pb	off	

10x10 10700 pps
20x20 10900 pps
100x100 out of the beam line
stopped after 254k events

2007-07-08 00:33 Alex, Tao, Nanda **pion run**

330198	beamData	10x10	-100GeV	pi-	516	air	4mm Pb	off	

10x10 trigger coincidence: ~12000 events per spill
Data taking rate: ~70 Hz
stage at 0,0 position
1x1 out of beamline
no cerenkov available
~220k events

2007-07-08 01:23 Alex, Tao, Nanda **no beam**

stopped run 330198 after 220k events
because beam is down
beam should be back in a few minutes

2007-07-08 01:31 Alex, Tao, Nanda **electron run**

330199	beamData	10x10	-50GeV	e-	530	6mm Pb	Air	off	

10x10 trigger coincidence: 3800 particles per spill
data taking rate: ~80 Hz
stage at 0,0 position

checked CRCs and found all alive for AHCAL and ECAL

stopped after ~250k events

2007-07-08 02:19 Alex, Tao, Nanda **ahcPmNoise run**

330200	ahcPmNoise						

30k events

checked CRCs and found all alive

2007-07-08 02:39 Alex, Tao, Nanda

330201	beamData	10x10	-40GeV	e-	531	6mm Pb	Air	off	0,0	junk run (beam went off)
330202	beamData	10x10	-40GeV	e-	531	6mm Pb	Air	off	0,0	junk run (beam went off again)
330203	beamData	10x10	-40GeV	e-	531	6mm Pb	Air	off	0,0	beam data, 250k ev

2007-07-08 03:36 Alex, Tao, Nanda **pion run**

330204	beamData	10x10	-80GeV	pi-	510	Air	4mm Pb	off	0,0	250k events

2007-07-08 04:28 Alex, Tao, Nanda **pion run**

330205	beamData	10x10	-50GeV	pi-	512	Air	4mm Pb	off	0,0	250k events

2007-07-08 05:19 Alex, Tao, Nanda

330206	beamData	10x10	-40GeV	pi-	514	Air	4mm Pb	off	0,0	250k events

2007-07-08 06:08 Alex, Tao, Nanda **pion run**

330207	beamData	10x10	-100GeV	pi-	516	Air	4mm Pb	off	0,0	270k events

2007-07-08 07:00 Alex, Tao, Nanda **electron run**

330208	beamData	10x10	-50GeV	e-	530	6mm Pb	air	off	0,0	25k events

2007-07-08 07:53 Alex, Tao, Nanda **ahcPmNoise run**

330209	ahcPmNoise							10k events

2007-07-08 07:55 Alex, Tao, Nanda **electron run**

330210	beamData	10x10	-40GeV	e-	531	6mm Pb	air	off	0,0	250k events

2007-07-08 07:58 Alex **Script checking if CRCs are alive**

I wrote a script, checking if ECAL and AHCAL CRCs are alive.

Start a terminal on calice02 and type: ssh_checkCrcReadout.

One should cross-check with the instructions given by Fabrizio below from time to time, since the script was written at night.

•*****

Thanks Alex. Just one point; the check for the CRCs being alive is only done at DAQ startUp (i.e. when starting from dead) and not each run. It is really to check the CRCs have booted OK when the crate was last powered on. Hence, your script does not need to loop as the log file won't change unless the DAQ is closed down and restarted.
Paul

2007-07-08 09:33 Evgeny/Cristina/Michal

330211	beamData	10x10	-30GeV	e-	532	3 mm lead	air	off	0,0	
330212	beamData	10x10	-30GeV	e-	532	6 mm lead	air	off	0,0	
330213	beamData	10x10	-30GeV	e-	532	6 mm	air	off	0,0	change

						lead				beam x position

trying to get a broad electron beam in order to locate the interwafer gaps for ECAL
beam is hitting the left side of MWPC in x.
change TRIM 6 to move beam in x direction --> run 330213 beam more centered

2007-07-08 11:09 Erika **pion summary**

summary of pion runs under following conditions:

wobbling -80 GeV
AHCAL HV: nominal + 0.3 V
Hodoscope still installed on beam line
10x10 trigger counters
100x100 front counter removed from beam line
Targ = Air, Abs = 4 mm Pb

Pion Energy	Run #
-100	330175,330198,330207
-80	330171*,330192,330204
-50	330172*,330173,330195,330196,330205
-40	330174,330197,330206

(*) run taken without absorber = higher electron contamination

2007-07-08 12:19 **hodoscope out**

remove hodoscope from ECAL front

2007-07-08 12:40 Fab **new beam file for 30 GeV e-**

H6B.530: e- at 30 GeV

Trim 6	+10
Q6	50.2
Q7	-30.2
Q8	-10
Q11	-60.8
Q12	28.66

Rate: 1270 pps 10x10
1400 pps 20x20

2007-07-08 12:45 Evgueni, Michal, Cristina

330215	beamData	10x10	-20GeV	e-	533	6mm Pb	air	off	0,0	250k events	

DAQ mean rate: 50 Hz

330214 junk run

2007-07-08 13:59 Evgueni, Michal, Cristina

Moved ECAL x position from 5150 to 4950.

2007-07-08 14:04 Evgueni, Michal, Cristina

330217	beamData	10x10	-20GeV	e-	532	6mm Pb	air	off	0,0	254k events	
330218	beamData	10x10	-30GeV	e-	533	6mm Pb	air	off	0,0	113k events	

DAQ mean rate: 50 Hz

2007-07-08 16:08 Niels, Jean-Yves, Hengne

330219	ahcGain	LED			533	6mm Pb	air	off	0,0	only one configuration = 15k events	
330220	beamData	10x10	-30GeV	e-	533	6mm Pb	air	off	0,0	262k events,	

										DAQ mean rate: 56 Hz	
330221	beamData	10x10	-40GeV	e-	533	6mm Pb	air	off	0,0	169k events	

DAQ mean rate: 80 Hz
Fab: Run 330221 stopped because beam not centered on the drift chambers.
Changed current in Trim6 to steer beam (now at +10; saved in beam file)
Sterted new run (330222). Will take same amount of events as previous run

2007-07-08 17:00 Jean-Yves **Summary of electron runs**

Summary of electron runs under following conditions:
Hodoscope still installed on beam line
10x10 trigger counters
100x100 front counter removed from beam line
Targ = 6 mm Pb, Abs = air

Electron Energy	Run #
-50	330176,330179,330180,330188,330189,330194,330199,330208
-40	330191,330203,330210
-30	330211,330212,330213

Hodoscope removed

Electron Energy	Run #
-20	330215,330217
-30	330218,330220
-40	330221,330222,330223,3330224
-50	330228

2007-07-08 18:16 Fab **e- run (40 GeV)**

330222	beamData	10x10	-40GeV	e-	531	air	6mm Pb	off	beam not pointing to centre of DC.

Trim6: current increased to +15 to steer beam.
Run Stopped after 112K events. Starting new run at sam energy to get a good (centered) point).

2007-07-08 18:34 Fab **electron run**

330223	beamData	10x10	-40GeV	e-	531	air	6mm Pb	off	55k Events, run started after re-centering beam on DC

Current in Trim6 up from 10 to 18 to center the beam on drift chambers.
Please take 250K good events with this configuration and then move to 50 GeV e- (250K evts)

2007-07-08 18:36 Niels, Jean-Yves, Hengne

2007-07-08 18:46 Fab **electron run**

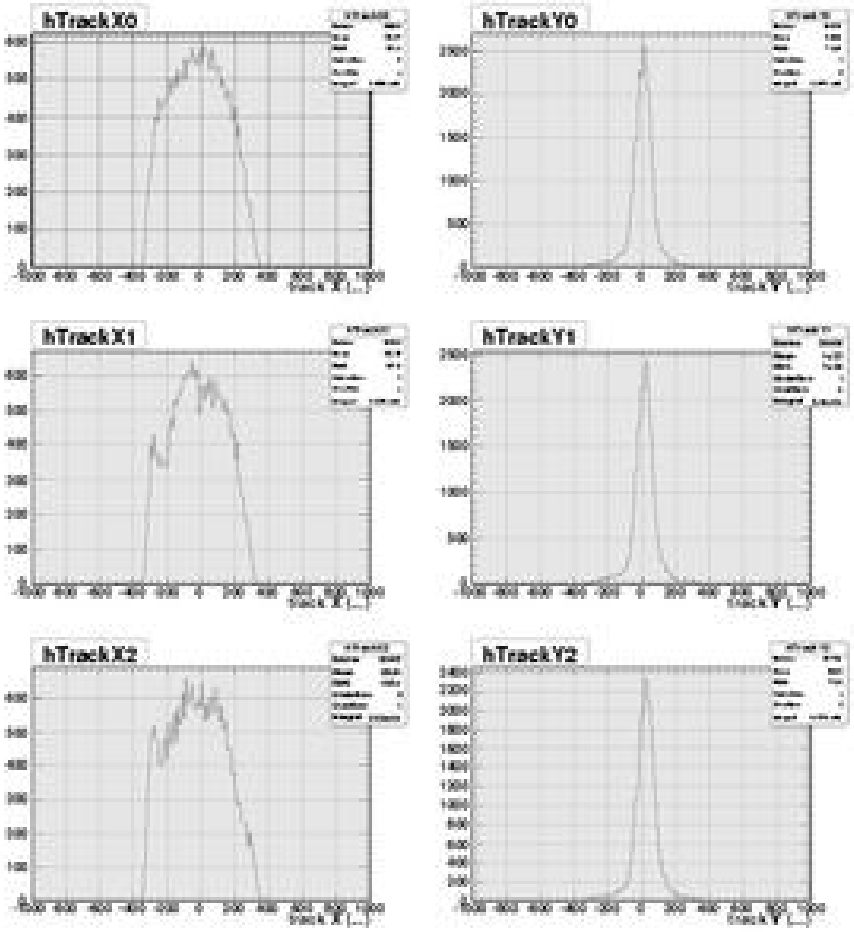
330224	beamData	10x10	-40GeV	e-	531	air	6mm Pb	off	beam centered now. 250K events in this configuration

DAQ mean rate: 87 Hz

2007-07-08 19:32 Niels, Jean-Yves, Hengne

330225	beamData	10x10	-50GeV	e-	531	air	6mm Pb	off	26k Events, dropped
330226	beamData	10x10	-50GeV	e-	531	air	6mm Pb	off	36k Events, dropped
330227	beamData	10x10	-50GeV	e-	531	air	6mm Pb	off	..k Events, dropped

dropped because beam is too board in the x direction.
put collimators in x direction more closer.
and then moved the beam to the right (x direction) (TRIM 6=25) with respect to the drift chamber.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/27/08.07/2007-07-08T19:32:31-04.eps

2007-07-08 19:54			Niels, Jean-Yves, Hengne							
330228	beamData	10x10	-50GeV	e-	531	air	6mm Pb	off	250K events	

DAQ mean rate: 73 Hz

2007-07-08 21:05			Niels, Jean-Yves, Hengne							
330229	ahcGain					4 mm lead	air	off	0,0	11 configurations
330230	ahcPmNoise					4 mm lead	air	off	0,0	50 k Events

2007-07-08 21:39	Niels, Jean-Yves, **Voltage changed** Hengne

```
HCAL voltage changes for some modules:
 3  +0.3V
 4  +0.3V
 5  +0.3V
 6  +0.3V
 7  +0.3V
 8  +0.5V
 9  +0.3V
10  +0.3V
11  +0.3V
12  +0.3V
14  +0.5V
34  +0.3V
```

2007-07-08 21:43 Niels, Jean-Yves, Hengne

330231	beamData	10x10	-80GeV	pi-	510	air	4mm Pb	off	0,0	250k Events
330232	beamData	10x10	-50GeV	pi-	512	air	4mm Pb	off	0,0	240k Events
330233	beamData	10x10	-40GeV	pi-	514	air	4mm Pb	off	0,0	dropped
330234	beamData	10x10	-40GeV	pi-	514	air	4mm Pb	off	0,0	230k Events

! Modified voltage for some HCAL modules , before these runs!!!

2007-07-01 05:21 Roman **cogri scripts and software release**

Dear Colleagues,

I have launched the copy (and grid), therefore cogri from now on ;-), scripts.

The scripts can be found on caliceserv under /scratch/home/caliceon/cp_xxxx xxxx=ecal,hcal,comb

The scripts copy the binary files into the desy dcache and immediately launch the
conversion on the grid. As usual for the starttup phase I had to remove some bugs in
the scripts. In combination with other problems, see below,
the conversion is not fully in phase with the datataking.
Ecal and combined runs are nearly fully converted, the hcal runs are tumbling in

The ecal and combined binaries are fully at desy the hcal runs are twenty runs behind.

Therewere two problems this night, a file which was already copied by hand blocked
the continue of the data transfer and therefore also the conversion. On the other hand
there was a grid communication problem with desy between 3 h and 4 h this night.

Now the situation looks better and runs are tumbling in, both binaries and converted files.
When you wake upon sunday, the processsing should be in phase.

Shift crews should check whether the scripts are running by
typing

ps aux | grep cp_

in any X-window on caliceserv

You should see the three perl scripts active.

The status of copying and conversion can be most easily checked by typing

lfc-ls -l /grid/calice/tb-cern/native/dat | grep Run3n0 where n=3,4,5
for the binaries and
lfc-ls -l /grid/calice/tb-cern/raw/conv_v0402 | grep Run3n0 where n=3,4,5
for the converted files.

The shift crew should check that the files displayed there are not way behind the data taking
(five runs at most).

The latter action can be done from any grid-ui in the world.

I will try to make the control of the data trasnfer/processing more convenient for the
shift crews in the next days.

Cheers,

Roman

P.S.: Please do also have a look on my annoucnement on the software release in the calice-sw
list.

2007-07-01 06:53 Alex **one CMB remaining for tuning, beamHoldScan started**

run 330016, beamHoldScan, 10x10 trigger, spill sync enabled, histogram output enabled, split beamRun
in 250k events.

stopped ecal safety-run.
all CMBs are powered down (power supply switched off manually)

2007-07-01 08:25 Beni/Yoshi **hold scan test**

330018	BeamHoldScan	10cmX10cm	muon	combined			Stopped in a way
330017	BeamHoldScan	10cmX10cm	muon	combined			Enable histogram output and split beamrun in 250k events.

Average event rate ~70Hz

Scalers; H6B_EXPT01 6.0E+03
H6B_EXPT02 6.2E+03
H6B_EXPT03 6.1E+02

2007-07-01 09:55 Beni/Yoshi

All previous BeamHoldScan runs was not completed. (Overwritten by mistake)

330019~330022 are also junk run.

2007-07-01 10:21 Beni/Yoshi **hold scan**

330023	BeamHoldScan	10cmX10cm	muon	combined			

Average event rate ~65Hz

Scalers: H6B_EXPT01 6.0E10+03 (10cmX10cm trigger)
H6B_EXPT02 6.2E10+03 (20cmX20cm trigger)
H6B_EXPT03 6.1E10+02

ECAL layer #3 and #4 are noisy.
ECAL slow control's -5V display is inactive because of network connection problem with the module.

~300k events were taken.

GOOD run for determining hold values from beam in the center most cells covered by the 10x10 trigger

also allignementd of detectors should be possible from this file.

2007-07-01 11:37 Beni/Yoshi **hold scan**

330025	BeamHoldScan	10cmX10cm	muon	combined			

330024 is junk run

2007-07-01 11:39 Erika/Beni/Yoshi **status**

At run#330023,
muon rate ~60Hz,
10cmX10cm trigger (6600 events/spill),

	Slot#	FE#	Module#	Comments
HCAL status;	9	1	29	Beside lost settings, HV=10V
	5	4	35	VFE to be checked
	7	6	2	very high noise all module
ECAL status;	9	0		chip#11 broken ?
	5			All FE off ?

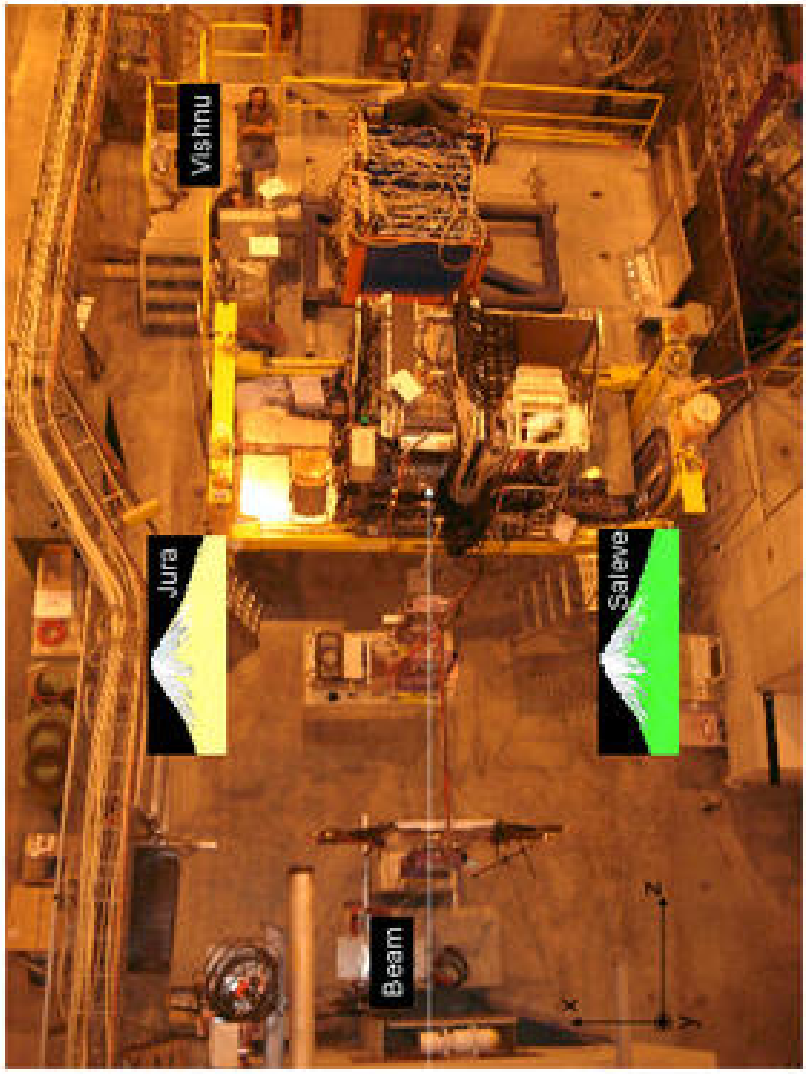
After 81 config in 75 min of 300k events, run stop.

RELOAD HCAL DAQ SETTING; ramp up module#29 to 77.5V, still bad setting -> ramp down

run#330025 started

2007-07-01 13:33 Fab/Erika/Beni/Yoshi **stage shift**

SHIFT movable stage 10cm to "Saleve".



File: http://ttfinfo.desy.de/CALICEelog/data/2007/26/01.07/2007-07-01T13:33:33-02.pdf

2007-07-01 13:39 Fab/Erika/Beni/Yo**ld scan**

330028	BeamHoldScan	muon	combined		(x,y)=(+10cm, 0)	

we are running with CMB off from this morning

2007-07-01 15:40 Erika/Fab/Beni/Yo**stage shift**

Shifted movable stage 10cm to "Jura" with respect to 0,0 position.

2007-07-01 15:41 Fab **Trigger map for Drift Chambers**

Trigger map for the drift chambers

DCH	TDC#	TDC channel#	
1-left	0	0	
1-right	0	1	
1-down	0	2	
1-up	0	3	
2-left	0	4	

2-right	0	5	
2-down	1	0	
2-up	1	1	
3-left	1	2	
3-right	1	3	
3-down	1	4	
3-up	1	5	

2007-07-01 15:42 Erika/Fab/Beni/Yosh **10cmX10cm scintilator shift**

10cmX10cm scintilator position was shifted away from ECAL approximatery 67cm compared with original position in order to keep safety stage moving.

2007-07-01 15:52 Erika/Fab/Beni/Yosh **hold scan**

330029	BeamHoldScan	10cmX10cm	muon	combined		(x,y)=(-10cm 0)

Average event rate ~60Hz

Scaler; H6B_EXPT01 6.0E+03 (10cmX10cm trigger)
H6B_EXPT02 6.7E+03 (20cmX20cm trigger)
H6B_EXPT03 3.6E+03

2007-07-01 16:11 **HV increase**

Increased HV for 100x100 muon counter in the back of the TCMT from 2100 to 2500 V.

2007-07-01 18:46 **stage shift**

Shifted movable stage back to x=0 position and vertically up 10 cm (to "Heaven")

2007-07-01 18:50 Erika **change of AHC.cgf**

found a mistake in AHC.cgf
modules 1 and 2 positions were inverted
corrected back, module 2 is not anymore noisy (Marius was right... wrong DAC settings ;-)

new AHC.cfg

```
5 0 AHCAL8 38 38 36 38 34 32 35 200 28000 31000
5 3 AHCAL8 37 37 40 37 33 32 35 59 28000 31000
5 4 AHCAL8 35 36 39 35 32 32 34 59 28000 31000
5 5 AHCAL8 34 35 37 34 34 32 34 200 28000 31000
5 6 AHCAL8 33 34 28 33 32 34 35 200 28000 31000
5 7 AHCAL8 32 33 35 32 32 34 35 200 28000 31000
1.
7 0 AHCAL8 31 32 34 31 31 34 35 200 28000 31000
9 0 AHCAL8 36 31 0  0  99 15 0  0  0 0
7 3 AHCAL  24 30 0  0  0  15 00 00 0 0
7 4 AHCAL  2  29 0  0  0  15 00 00 0 0              swapped
7 6 AHCAL  1  28 0  0  0  15 00 00 0 0              swapped
7 7 AHCAL  30 27 23 30 27 32 34 59 28140 31000
1.
9 1 AHCAL  29 26 26 29 26 32 34 59 28140 31000
9 2 AHCAL  28 25 10 28 25 32 35 59 42500 46000
9 3 AHCAL  27 24 38 27 24 32 34 59 27900 31000
9 4 AHCAL  26 23 22 26 23 32 33 59 28080 31000
9 6 AHCAL  25 22 16 25 22 32 31 59 41800 46000
9 7 AHCAL  23 21 21 23 21 32 33 59 28000 31000
1.
12 4 PMT 1
1.
15 1 AHCAL 22 20 32 22 20 32 33 59 28050 31000
15 2 AHCAL 21 19 24 21 19 32 34 59 28000 31000
15 3 AHCAL 20 18 31 20 18 32 33 59 27950 31000
15 4 AHCAL 19 17 27 19 17 32 34 59 28050 31000
15 6 AHCAL 18 16 15 18 16 32 34 59 42050 31000
15 7 AHCAL 17 15 25 17 15 32 33 59 28200 31000
1.
17 0 AHCAL 16 14 29 16 17 32 33 59 28000 31000
17 1 AHCAL 15 13  3 15 17 32 40 56 42050 31000
17 2 AHCAL 14 12  8 14 17 32 31 56 41600 31000
17 4 AHCAL 13 11 18 13 17 32 35 56 41730 31000
17 5 AHCAL 12 10  0 12 17 32 34 56 41720 31000
17 6 AHCAL 11  9 13 11 17 32 34 56 41800 31000
17 7 AHCAL 10  8  2 14 17 32 36 56 42000 31000
1.
19 4 AHCAL  9  7 19  9 17 32 33 56 42000 31000
19 1 AHCAL  8  6 11 12 17 32 32 56 41750 31000
```

```
19 2 AHCAL  7  5  5  7 17 32 33 56 41900 31000
19 3 AHCAL  6  4  7  6 17 32 33 56 41700 31000
19 5 AHCAL  5  3  1  5 17 32 38 56 41950 31000
19 6 AHCAL  4  2  4  4 17 32 32 56 41950 31000
19 7 AHCAL  3  1 12 11 17 32 100 56 41800 31000
```

2007-07-01 18:55 Michele Faucci Giannelli

330032	beamHoldScan	10x10	muons	combined run		0,+10	Bad run, HCAL switched off.	
330033	beamHoldScan	10x10	muons	combined run		0,+10	Beam off, run stopped.	

+

2007-07-01 20:51 S. Schaetzel

The Slow Control is painfully slow. CMB voltage has to be switched on by hand.
Initialisation of CMB takes a couple of minutes.

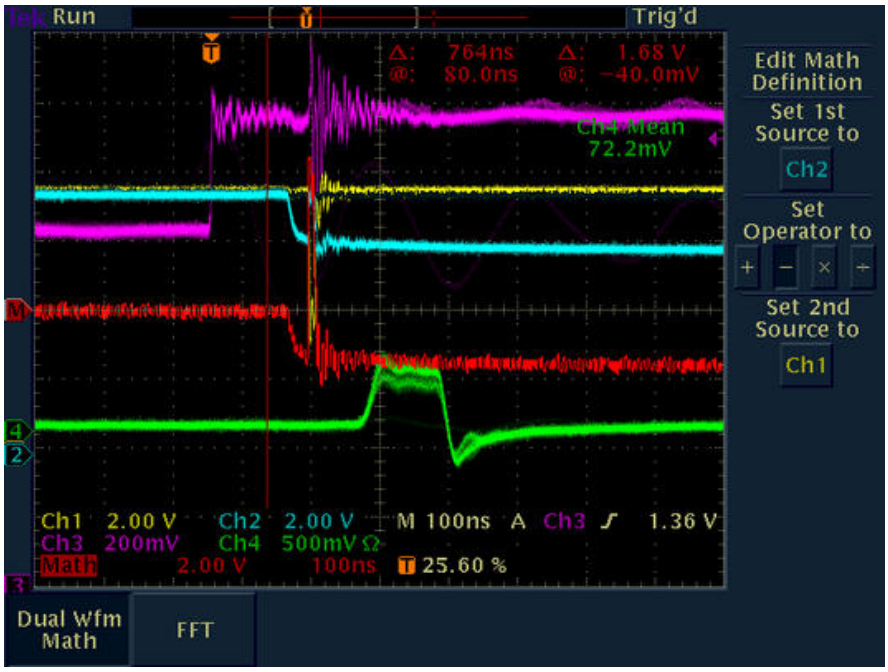
Module switch-off (1 module HV on): 9.5min (we had to switch HV off in the HV expert panel)

2007-07-01 22:39 S. Schaetzel

green signal in scope picture is analogue out of
Module 1, HAB 7. 3 different HABs show the same signal

signal does not change in shape when dimming the LED

hold=35 ticks



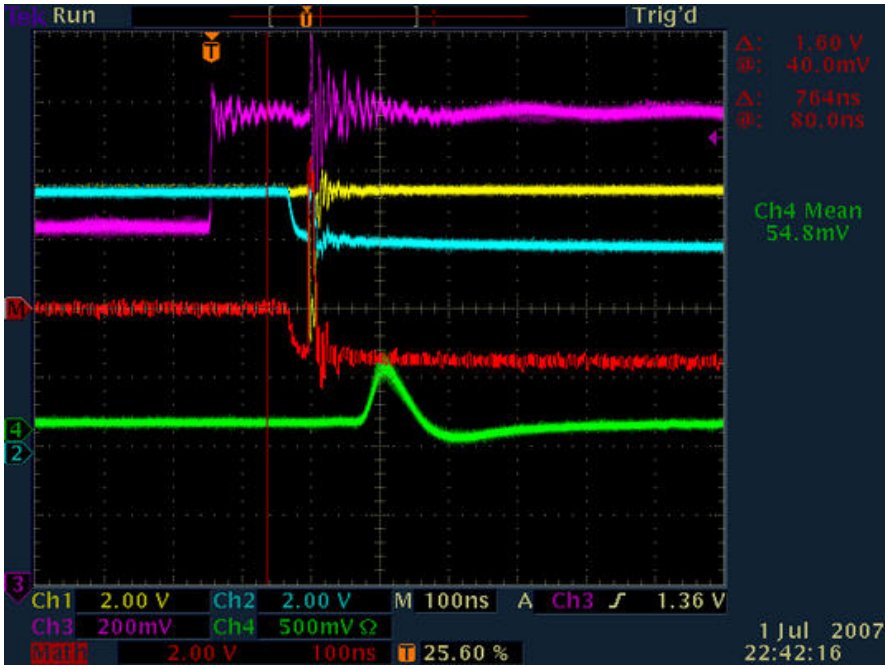
File: http://ttfinfo.desy.de/CALICEelog/data/2007/26/01.07/2007-07-01T22:39:59-00.png

2007-07-01 22:49 S. Schaetzel

same setup but hold=100 ticks

signal goes through funny shape transformation during hold scan

we skip this HAB for the LED tuning



File: http://ttfinfo.desy.de/CALICEelog/data/2007/26/01.07/2007-07-01T22:49:11-00.png

2007-07-01 23:14 S. Schaetzel

```
the nightly calicehcaldaq01 crash happened at 23h

enabled hyperthreading in BIOS for a change
```

2007-07-01 23:49 S. Schaetzel **DAC files are not synchronised**

```
LED tuning was done on calicehcaldaq01
using the DAC value files in
/home/caliceon/cfg/ahcal

These are not the files on the raid disk which
are used by calice02.

Example: Module 2
tuned yesterday to the file DACvalue_mod2_A68.0_B65.0.txt;
on calice02, the file DACvalue_mod2_A77.0_B79.9.txt is used

For Module 1 the files were also different. I copied the calice02
file to calicehcaldaq01 and used it for the tuning.

hcaldaq01 has the raid disks in /etc/fstab but they are not mounted ---- Why?

the daq01 files are from June 17

files in /srv/calice/data00/cfg/ahcal from June 28:
4 -rw-r--r--  1 caliceon 3145 1799 Jun 28 20:39 DACvalue_mod1_A68.1_B64.7.txt
4 -rw-r--r--  1 caliceon 3145 1768 Jun 28 20:40 DACvalue_mod2_A77.0_B79.9.txt
4 -rw-r--r--  1 caliceon 3145 1749 Jun 28 20:40 DACvalue_mod24_A68.4_B75.2.txt
4 -rw-r--r--  1 caliceon 3145 1177 Jun 28 20:41 DACvalue_mod36_A80.7_B73.3.txt
4 -rw-r--r--  1 caliceon 3145 1667 Jun 28 20:42 DACvalue_mod18_A41.0_B41.1.txt
all other files are from June 23

Apparently, the June 28 files were not copied to hcaldaq01.
```

2007-07-02 00:28 S. Schaetzel **summary of DAC file desaster**

```
wrong LED settings for
   - Module 36          no DAC file  !!! ===> needs retuning
   - Module 2           wrong DAC file   ===> Vcalib increased by 200
   - Module 24          wrong DAC file   ===> Vcalib unchanged

For Module 36, the log files say:
Log1183249096.out_:error opening DAC_module36.dat
Log1183249232.out_:error opening DAC_module36.dat
Log1183249323.out_:error opening DAC_module36.dat
It would be good to send this error to stdout!
```

2007-07-02 02:27 S. Schaetzel **no beam**

machine broken

monitor reads:
CPS magnet problem
no piquet or expert available
No beam for the night
More news around 9:00 AM

2007-07-02 02:28 S. Schaetzel **LED tuning today 14h-17h**

We have to retune the LEDs for module 36 because the DAC value file was missing last time.

2007-07-02 08:59 Yoshi **No beam**

No beam before 12:00 noon

When I arrived in shift room this morning, ECAL slow control was on without any DAQ running.
REMIND: Please do ECAL SAFTY RUN when beam is out for long time. (In order to avoid that slab is kept in charged up for a long time.)

2007-07-02 17:00 Alex **All CMBs tuned now**

All CMBs are mounted and tuned now, see photo below.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/27/02.07/2007-07-03T21:48:52-00.jpg

2007-07-02 17:29 A.-M. Magnan **resuming muon runs**

330036	beamData	10x10	mu-	combined run		stage 0,10	bad run
330037	beamData	10x10	mu-	combined run		stage 0,10	good but low DAQ rate

strange feature in the DAQ : trigger rate not in coincidence with spill one every other spill.

ECAL looks weird (no muons in event display whereas HCAL and TCMT see some) and HCAL noisy...
Stopped the run, restart everything from scratch for run 330037.
Explanation: beam was stopped from the beginning of the line as experiment upstream was in access...

And as ECAL bottom slabs are not in the event display yet so we see only noise !!

2007-07-02 18:34 A.-M. Magnan **Playing with DAQ rate**

330038	beamData	10x10	mu-	combined run		stage 0,10	good
330039	beamData	10x10	mu-	combined run		stage 0,10	good

good for HCAL, only bottom row in beam: last 10 layers.

DAQ modifs: disable ECAL-stage control socket because DAQ couldn't communicate with it,
Change trigConfig.hh to solve DAQ trigger rate not in coincidence with spill: miss one spill every other spill.

```
--> ped in spill enabled
    ped in spill rate 10 Hz.
Now for 1 spill over 5-7, DAQ still at 0 Hz : compatible with config change every 10,000 events.
 So average trigger rate is 80 Hz now (was 60 with ped in spill rate disabled).
330038 stopped to change ped in spill rate to 100 Hz for 330039. Doesn't change anything.
```

2007-07-02 19:37 A. Kaplan **Too high current in HV channels (red blinking)**

```
There is a to high current in the following modules:

Position:   26A 26B 27A 27B 28A
Module:     29A 29B 30A 30B 1A
Current:    274 300 520 545 1054
```

2007-07-02 19:40 Erika **for HCAL analizers**

```
the last muon runs taken at position 0,10 should all be fine and can be used to determine mip
calibrations.

you will see a difference in the number of pedestals in spill. would be interesting to know the
 rate of pedestals in spill for runs 330038 and 330039. Thank you.
```

2007-07-02 19:47 Erika

330042	ahcPmNoise	20000 ev

2007-07-02 22:27 Alexander **beamHoldScan+ahcPm(Cm)LedHoldScan runs**

330043	beamHoldScan	100x100	mu-	
330044	ahcPmLedHoldScan	LED	mu-	
330045	ahcCmLedHoldScan	LED	mu-	
330046	beamDataRun	20x20	mu-	
330047	ahcGain	LED	mu-	
330048	beamDataRun	20x20	mu-	
330049	beamDataRun	20x20	mu-	
330050	beamDataRun	20x20	mu-	

```
330043: spill sync enabled, Split beamRun disabled
stopped by pressing "START ECAL SAFETY RUN"-Button

330044: spill sync disabled, Split beamRun disabled

pressed "START ECAL SAFETY RUN"-Button before run 330045
330045: spill sync disabled, Split beamRun disabled

330046: spill sync enabled, Split beamRun enabled

CMB 30 (Modul 24) and CMB 33 (Modul 36) do not answer in mainCMB panel.

run 330046 stopped by Beni for ahcGain

330047: ahcGain run (Beni)

330048: spill sync enabled, Split beamRun enabled
H6B_EXPT01 (02) Rates : 10*10=6700 and 20*20=7000

Everything looks fine on the monitoring, leaving to run overnight.
```

2007-07-02 22:27 Alexander **beamHoldScan+ahcPm(Cm)LedHoldScan runs**

330043	beamHoldScan	100x100	mu-	
330044	ahcPmLedHoldScan	LED	mu-	
330045	ahcCmLedHoldScan	LED	mu-	
330046	beamDataRun	20x20	mu-	
330047	ahcGain	LED	mu-	
330048	beamDataRun	20x20	mu-	

```
330043: spill sync enabled, Split beamRun disabled
stopped by pressing "START ECAL SAFETY RUN"-Button

330044: ahcPmLedHoldScan, spill sync disabled, Split beamRun disabled
extracted Hold_PM_Led values:
got reasonable values for 19 modules only, for modules 1-16,18, 20 and 34
extraction of Hold_PM_led values did not work.

pressed "START ECAL SAFETY RUN"-Button before run 330045
330045: ahcCmLedHoldScan, spill sync disabled, Split beamRun disabled
extracted Hold_CM_Led values:
Comparision with those already in AHC.cfg, Beni put the new ones in.
Values were almost all consistent. There were 10 bad modules, where no
proper hold values could be determined from this run.
Two of them, Modul 24 (CMB 30) and Modul 36 (CMB 33) did not answer in mainCMB panel.
The other bad Modules are: 1, 2, 10, 12, 13, 14, 20 and 34
```

```
330046: spill sync enabled, Split beamRun enabled


run 330046 stopped by Beni for ahcGain

330047: ahcGain run (Beni)

330048: spill sync enabled, Split beamRun enabled
H6B_EXPT01 (02) Rates : 10*10=6700 and 20*20=7000

Everything looks fine on the monitoring, leaving to run overnight.
```

2007-07-03 03:17 Roman **Run 330050 stopped on DAQ error - Full Disk + Further Problems**

```
Dear Experts,

The Run330050 stopped on a DAQ Error.

In the following the tail of the message desiplyed in the
DAQ gui

 t control#
 sendAndRecv()  std::string recv ed  header 11 bytes ==>daqrequest <==, message
15 bytes ==>1183421169 0 0 <==
 Number of bytes written = 2000020316 > 2000000000

The errlog Log1183412671.err_icalice00 says at its end ...


RcdWriterBin::close()  Closed file data/run/Run330050.003.bin
RcdWriterBin::open()   Opened file data/run/Run330050.004.bin
RcdIoSkt::write()  ERROR  Number of bytes to send = 56556 for record
RcdHeader::print()  Record Time = 00:02:38:951:602 Tue Jul  3 2007,  Type =  5 = event

RcdIoSkt::write()  ERROR  Number of bytes to send = 56556 for record
RcdHeader::print()  Record Time = 00:02:38:976:890 Tue Jul  3 2007,  Type =  5 = event

RcdWriterBin::write()  Error writing to file;number of bytes written 15320 < 45220 Success
runner: daquser/inc/run/RunWriterDataMultiFile.hh:53: virtual bool
RunWriterDataMultiFile::record(const
 RcdRecord&):
Assertion `_writer->write(r)' failed.

There was not run start at all possible.

It looks as if the reason for the failure was that the data00 disk
was full. Using my check and delete scripts I have freed some
1.25 TByte on that disk.

After that I could start an emcNoise Run.

A start of a combined run, however, was *not* possible.

Already the DAQ startup was blocked, obviously by the following problems
runner compiled at Mon Jul  2 18:56:42 2007
Command = runner

CrcConfiguration::trgSlot()
 CrcLocation::print()
  Crate number     =  172 = 0xac
  Slot number      =   12
  CRC Component    =   10 = BE-Trg
  Label            =    1 = 0x01 = 0b00000001 = write

inet_pton status = 1
DuplexSocket connect failed; retry 0/100
inet_pton status = 1
DuplexSocket connect failed; retry 1/100
inet_pton status = 1
DuplexSocket connect failed; retry 2/100
inet_pton status = 1
DuplexSocket connect failed; retry 3/100
inet_pton status = 1
DuplexSocket connect failed; retry 4/100
inet_pton status = 1
DuplexSocket connect failed; retry 5/100
inet_pton status = 1
---
DuplexSocket connect failed; retry 99/100
inet_pton status = 1

(and then silence ...)
```

extracted from Log1183429747.out_icalice00

Since I have no idea at all what kind of communication cannot
be established I have decided to switch the Ecal off and leave the
system sunning with (non recorded) Crc Noise runs on both calice01 and
calice02. I've got rates on both individual DAQs.

Cheers,

Roman

BTW.: Although the DAQ was clearly at run 330050 the Gui display still said 330048.

.*****

For future reference: the socket connection failed error is to one of the other
PCs in the system. It looks from the above like the first one tried failed, which
is the one to the ECAL, i.e. calice01. Hence, it seems startSkt was not successful
there. (I would guess after the crash a "panic" would be needed on all three PCs;
maybe this was not done?) In such a case, it is better to log onto calice01 and
calice02 and do the startSkt by hand (as opposed to using the GUI) as the lock file
error is then seen explicitly and it becomes clearer that a panic is needed.
Cheers,
Paul

2007-07-03 08:30 Erika **bug "fixing'**

one comment to the problem (observation) pointed out by Roman,
the DAQ should be started only from the GUI and not manually from the shell
if not otherwise specified. When not starting from the GUI all socketing
has to be started by hand before, I think this was the problem of Roman.
Concerning the update of run number I'll have to investigate.

2007-07-03 08:45 Erika **20x20 hold scan**

330051	beamHoldScan	20x20	mu-	combined		stage 0,0	good

my guess was yesterday evening that the 20x20 comes about 12 ns later w.r.t. the 10x10 trigger
so I've set all hold values 2 ticks earlier. would be nice to confirm this trend at least for few
tiles. thank you!

2007-07-03 09:52 Francois/Eugeny/Yoshi **muon run**

330052	beamData	20x20	mu-	combined		0,0	

start muon run

2007-07-03 10:26 Beni/Francois/Eugeny/Yoshi **muon run**

330053	beamData	20x20	mu-	combined		0,0	

~150K events

run terminated because DAQ computer hanging.

For safety, the ECAL is switched off. DAQ computer needs to be rebooted.

2007-07-03 10:44 Beni/Francois/Eugeny/Yoshi **caliceserv reboot**

~10:15 caliceserv (PC for DQM) is rebooted because it had stuck.
Not yet launched data copy script at this moment.

2007-07-03 12:02

330054	beamData	20x20	mu-	HCAL + TCMT		0,0	
330055	beamData	20x20	mu-	HCAL + TCMT		0,0	

good runs for muon calibration

ECAL still off!

2007-07-03 12:02 Erika

330056	beamData	20x20	mu-	HCAL		?,0	testrun

ECAL os off
run taken with movable stage moving in x direction
possible higher noise due to the motor!?
otherwise x scan of the HCAL at y=0 ;-)

2007-07-03 12:22 Yoshi/Beni/Erika/Francois/Eugeny **Reference setting for x position**

Movable stage reference was lost during test of stage moving in this morning (before 330054 ?), therefore the reference setting was searched again by moving stage most to left (most to Jura) where gives reference definition for x position.

2007-07-03 13:04 Yoshi/Francois/Eugeny **Hold Scan**

330058	beamHoldScan	10x10	mu-	combined		+10,+3?	

Average event rate ~94Hz
~81 configuration
~300k events

2007-07-03 13:42 Yoshi/Francois **junk run**

330059	beamData	20x20	mu-	combined		+10,+3?		

Just after run start, beam is lost. -> Junk run

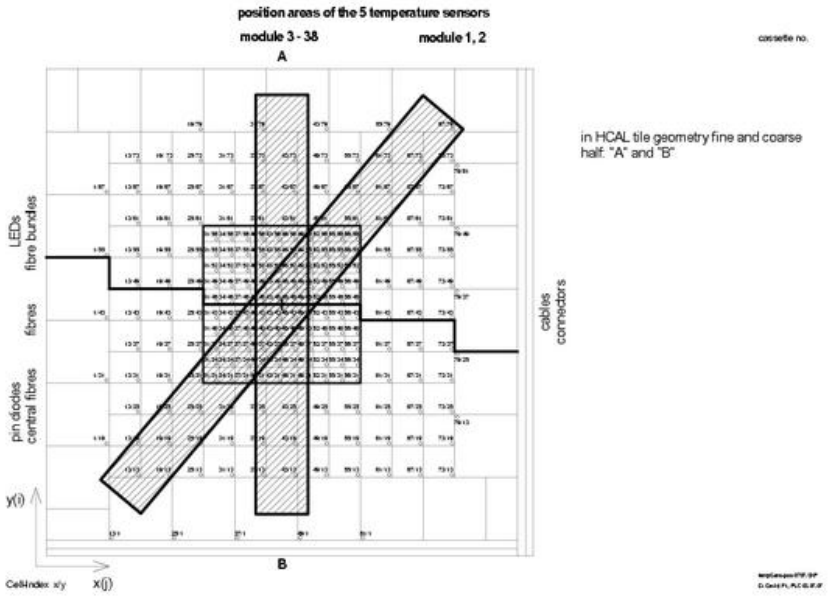
2007-07-03 14:09 Doerte David **assembling status**

All modules are well done and also installed at CERN.

Though the "assembling status" is finished.

But one addition about temperature sensors:
The positions of the temperature sensors were changed in the last reassembled modules no. 1 and 2.
In the following drawing you can see the areas of positions in modules 3 - 38 and 1 - 2.

And now
good luck for the run period.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/27/03.07/2007-07-03T14:09:15-00.pdf

2007-07-03 14:22 Erika **HCAL pedestals**

330060	ahcCmNoise	
330061	ahcPmNoise	

2007-07-03 14:44 Yoshi/Francois/Eugeny **muon run, stage moved in X and Y**

330062	beamData	20x20	mu-	combined		-10,-29	

2007-07-03 14:46 Yoshi/Beni/Erika/Francois/Eugeny **Reference setting for y position**

14:00~14:40 Movable stage is shifted most to "Heaven" position in order to set reference for y position.

2007-07-03 15:07 Beni/Yoshi/Francois/Eugeny **Movable stage shift**

Movable stage is shifted to (x,y)=(-10, -20)

2007-07-03 15:08 Beni/Yoshi/Francois/Eugeny **Hold scan**

330063	beamHoldScan	10x10	mu-	combined		-10,-20	

Beam is lost after ~40min.
~200k events are OK.

2007-07-03 16:05 Michele/Alexander/Sadia **LedVCalib run**

330064	ahcCmLedVCalibScan	no beam					
330065	ahcPmLedVCalibScan	no beam					

2007-07-03 16:48 Roman **Ecal Status**

Dear Colleagues,

I would like to summarize observations/actions on the Ecal during the last two days.

1) Regulator tests

The regulator tests could not be performed since the 'emergency' power supply
does not deliver 7 V which would be needed to supply the regulators and the ASIC
chips. This test had to be postponed until a decent power supply is available (already
ordered by the LLR colleagues).

2) Dead(?) layers

During the last two days we observed two dead layers in the online histogramming.
It looks as if layer 18 central and layer 28 bottom are not delivering signals.
Still no reason to panic. It might be that these layers are not fully supplied after
the intervention of Christophe de la Taille and me from yesterday.

Since Marcel and me will install now bottom layers tomorrow evening we can use this
opportunity to have a closer look at the problem.

Cheers,

Roman

2007-07-03 17:51 Roman **cogri scripts**

Dear Colleagues,

after the restart of the caliceserv this morning, the cogri scripts needed to be
restarted.

Since then everything works fine.

This is what the shift crew should do in that case

1) Restart of cogri scripts

The restart of the cogri script should (from) now on be done by

> start_cp.sh (anywhere on caliceserv)

Remark:

Do this only after you've seen that none of the scripts is running
> ps aux | grep cp_

If in doubt call expert

2) Setting of network parameters

After a restart of the caliceserv machine the network parameters have to be set.

a) Try to find a expert or root user on caliceserv (Don't call him/her in the middle of the
night!!!)

b) The root user should then set the network parameters by
> cd /scratch/caliceon/bin
> ./setNetwork_serv.sh

Cheers,

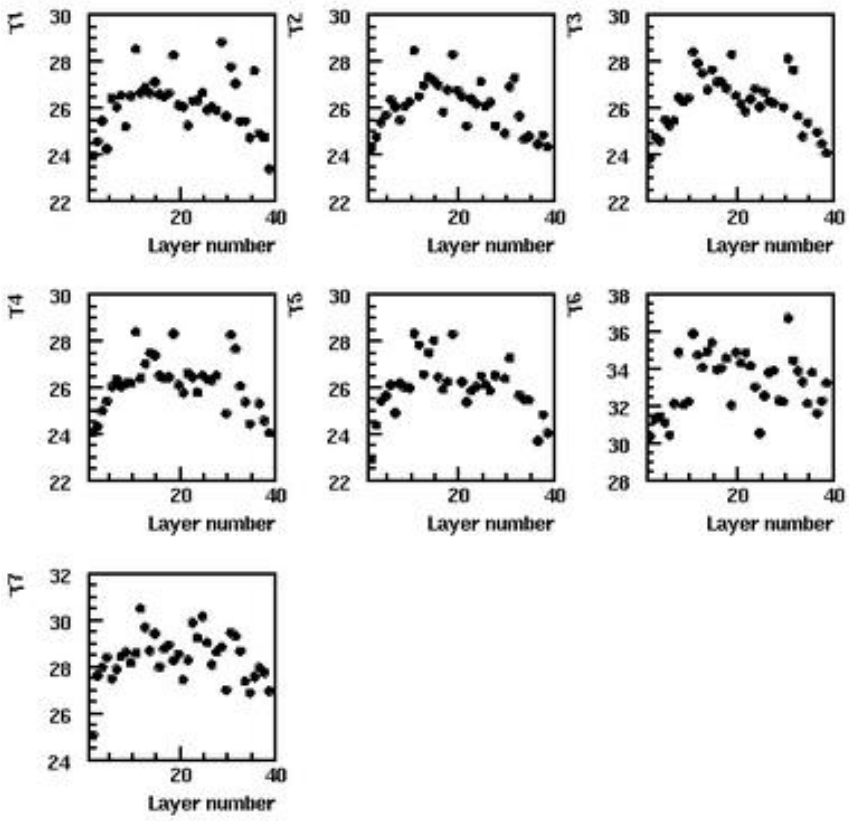
Roman

2007-07-03 17:59 Roman **cogri scripts stopped**

The cogri scripts have been stopped for test purposes.

2007-07-03 17:59 Evgeny **HCAL temperature**

HCAL temperature after one night of cooling down with fans
temp taken at about 11:00 am.
T1-5 module sensors
T6-7 CMB top, bot



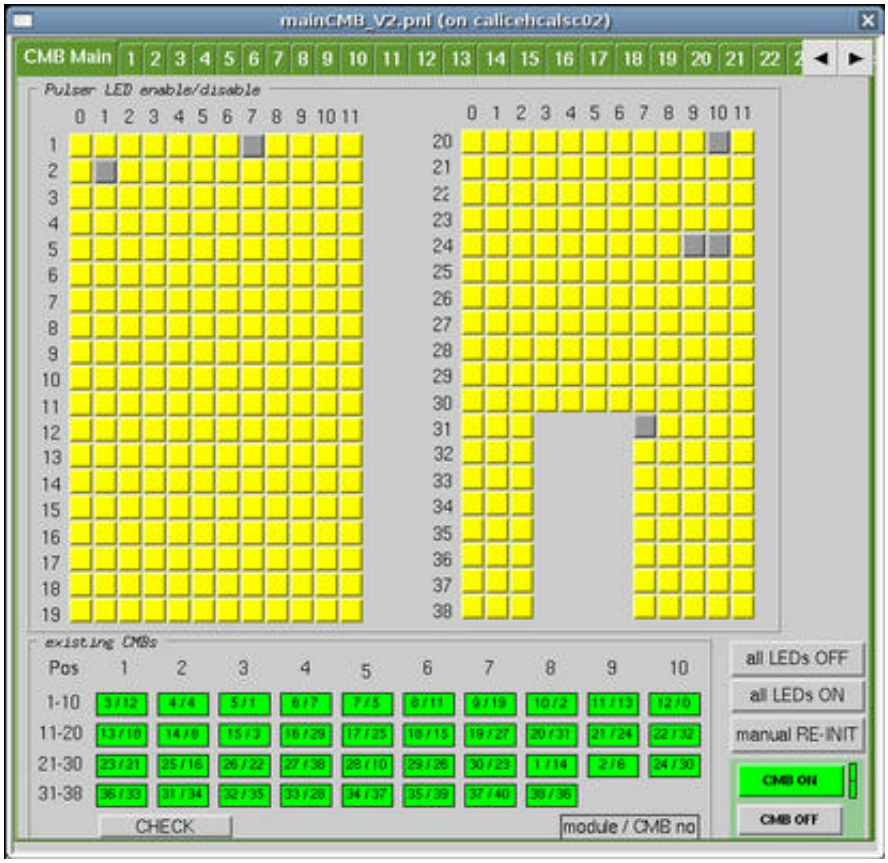
File: http://ttfinfo.desy.de/CALICEelog/data/2007/27/03.07/2007-07-03T17:59:28-00.gif

2007-07-03 18:37 Alex, Beni **CMB fuses, LEDs**

After changing fuses for CMBs 30 and 33 we found three other CMBs with dead fuses: 8,9 and 12.
We exanged all burned fuses with new 3 A fuses. After turning CMB power off an on, all LEDs were

turned off. During CMB tuning some LEDs were turned off by intention.
The information which LEDs were off was lost, but could be reconstructed from
http://www.desy.de/~sschaetz/hcal/cmbstatus/cmbstatus.xhtml

Current LED settings are shown in the picture below:



File: http://ttfinfo.desy.de/CALICEelog/data/2007/27/03.07/2007-07-03T18:37:49-05.png

2007-07-03 19:01 Kurt Francis **TCMT debuggin run**

330066	ahcCmLedNoise	internal					test run to verify faulty HAB in TCMT

2007-07-03 21:10 Kurt Francis

330067							Bad Run	
330068							Bad Run	
330069	ahcGain	LedTrigger	no beam	HCAL				

2007-07-03 22:37 Michele/Alexander/Sasha **beamData**

330070	beamData	20x20	mu-	combined		-10,-20	155k good run	
330071	beamData	20x20	mu-	combined		-10,-20	bad run	
330072	beamData	20x20	mu-	combined		-10,-10	155k good run	

2007-07-03 23:27 Sasha,Vishnu **TCMT movement**

Move TCMT another 30 cm in x (---> Jura)

2007-07-03 23:57 Fab **check list during shifts**

Please run check list *at least* twice per shift.
In the time between the check lists, please check that both HCAL and ECAL are on while we take data.

If not on (and there are no obvious resons why they should be off !), please turn on and make an entry in the elog.

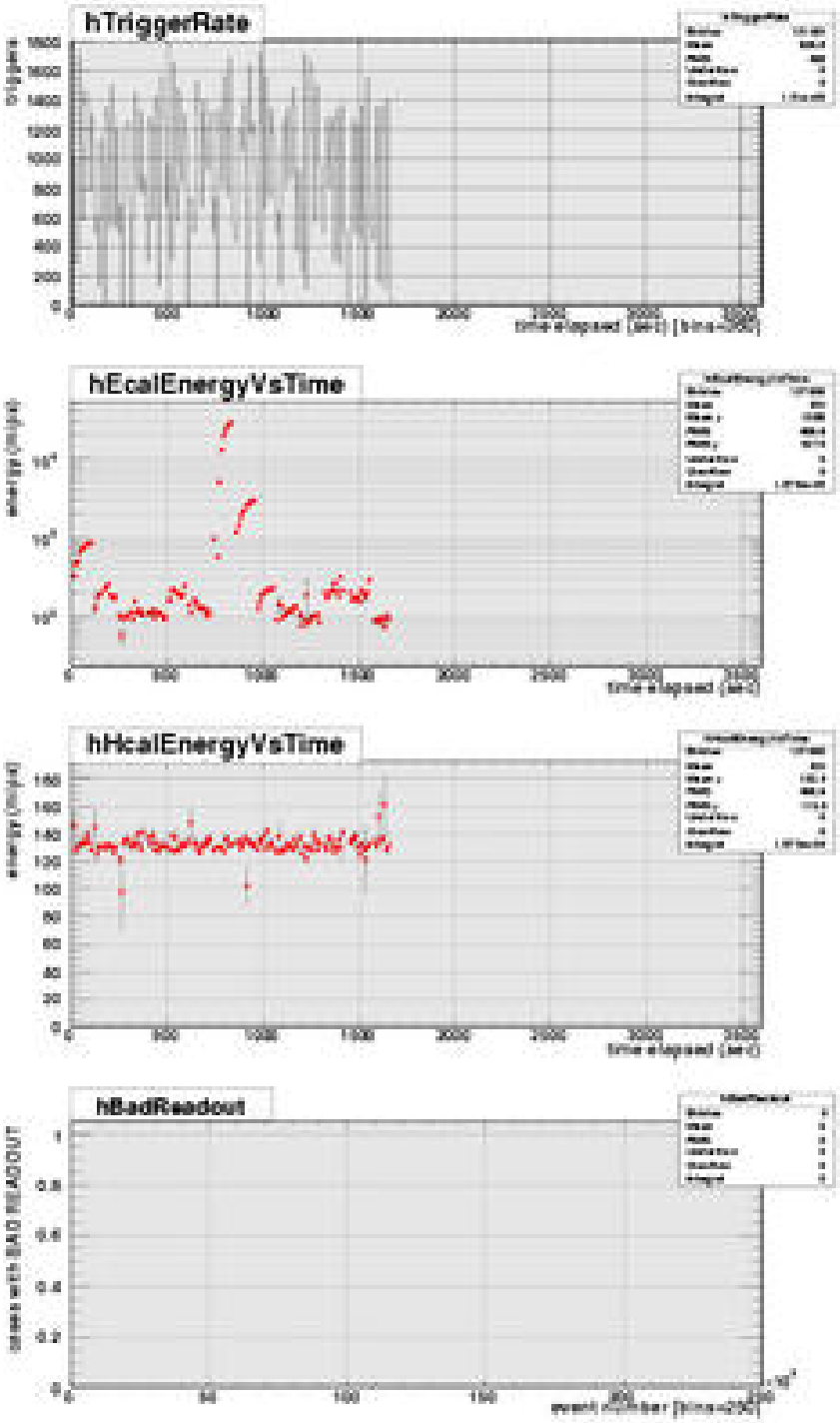
2007-07-04 00:07 Fab

Movable stage back to the (0,0) position.
Start programme for the night: voltage scan of HCAL (muon beam).

2007-07-04 00:09	Anne-Marie,Hengne,Stefan,Jose	**first series of beamData runs that will scan in SiPM HVs**						
330073	beamData	20x20	mu-	combined	nominal	(0,0) for ECAL+HCAL, +40 in x for TCMT		
330074	ahcPmNoise	LED		combined	nominal	(0,0) for ECAL+HCAL, +40 in x for TCMT		
330075	ahcGain	LED		combined	nominal	(0,0) for ECAL+HCAL, +40 in x for TCMT		

Monitoring list new bad channels (weren't listed for example in run 330037)
•** Bad channel: layer=7, strip=4, pedestal=948.807 +/- 63.6077
•** Bad channel: layer=7, strip=5, pedestal=820.662 +/- 289.902
•** Bad channel: layer=5, strip=19, pedestal=559.559 +/- 124.605
•** Bad channel: layer=5, strip=15, pedestal=896.465 +/- 61.5737
•** Bad channel: layer=1, strip=9, pedestal=981.226 +/- 73.8279
•** Bad channel: layer=16, strip=16, pedestal=879.609 +/- 118.966

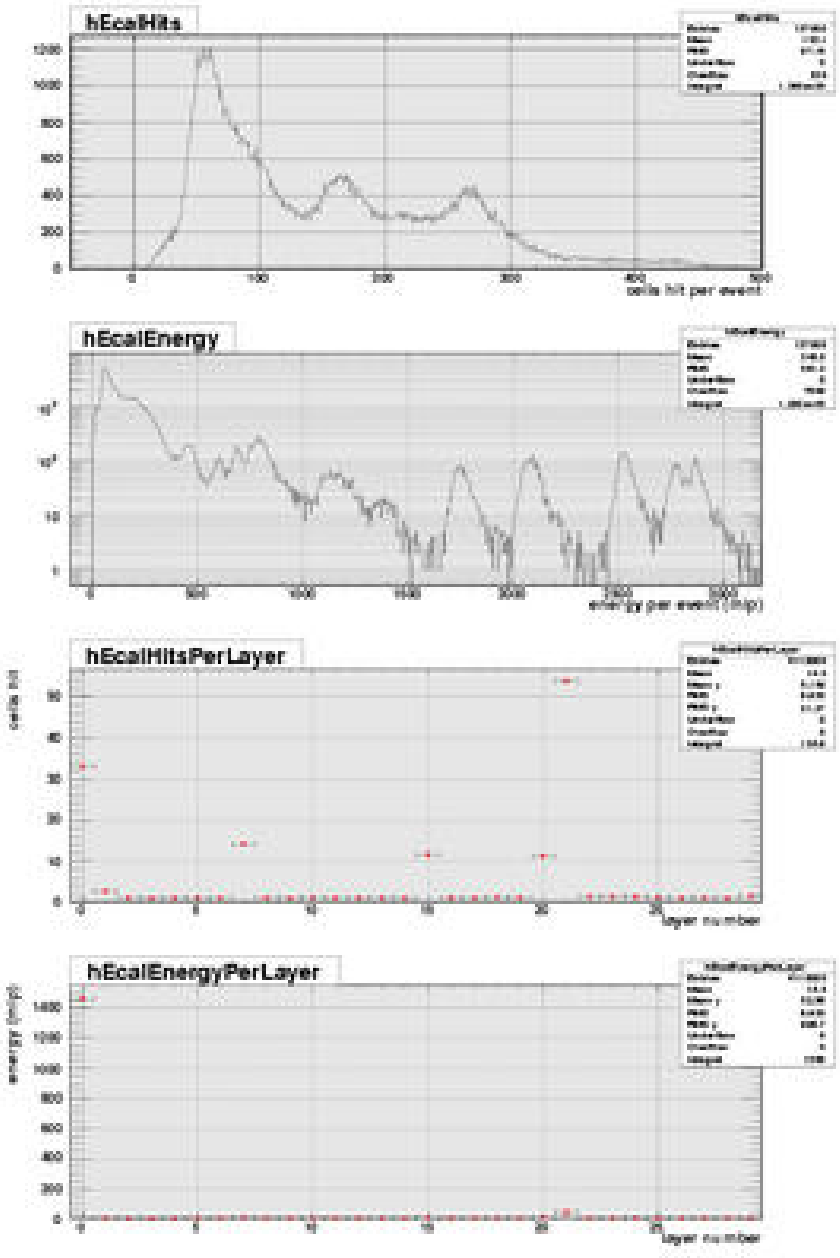
ECAL looks really noisy on the monitoring, and unstable noise. See file below and in next entry.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/27/03.07/2007-07-04T00:09:32-06.eps

2007-07-04 01:04 Anne-Marie,Hengne,Mishka **ecal looking like french Alps**

```
In run 330073, ECAL energy distribution looks bad:
because of layer 0 noisy periodically.
```

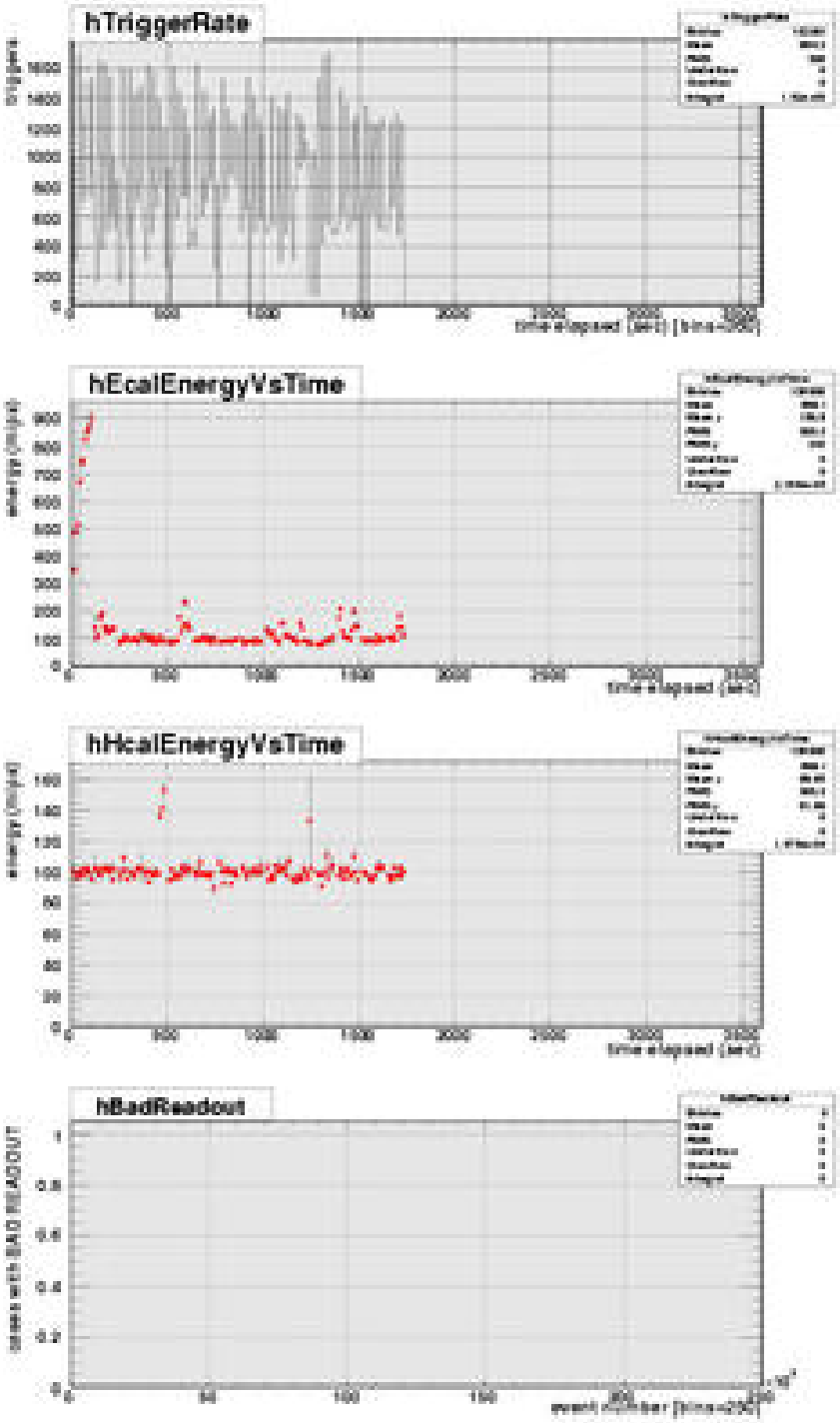


File: http://ttfinfo.desy.de/CALICEelog/data/2007/27/04.07/2007-07-04T01:04:24-00.eps

2007-07-04 01:07 Anne-Marie,Hengne,Yong **varying HCAL voltages**

330076	beamData	20x20	mu-	combined	HCAL+TCMT nominal-0.3V	0,0 (+40,0 TCMT)	
330077	ahcPmNoise			combined	HCAL+TCMT nominal-0.3V	0,0 (+40,0 TCMT)	
330078	ahcGain	LED		combined	HCAL+TCMT nominal-0.3V	0,0 (+40,0 TCMT)	

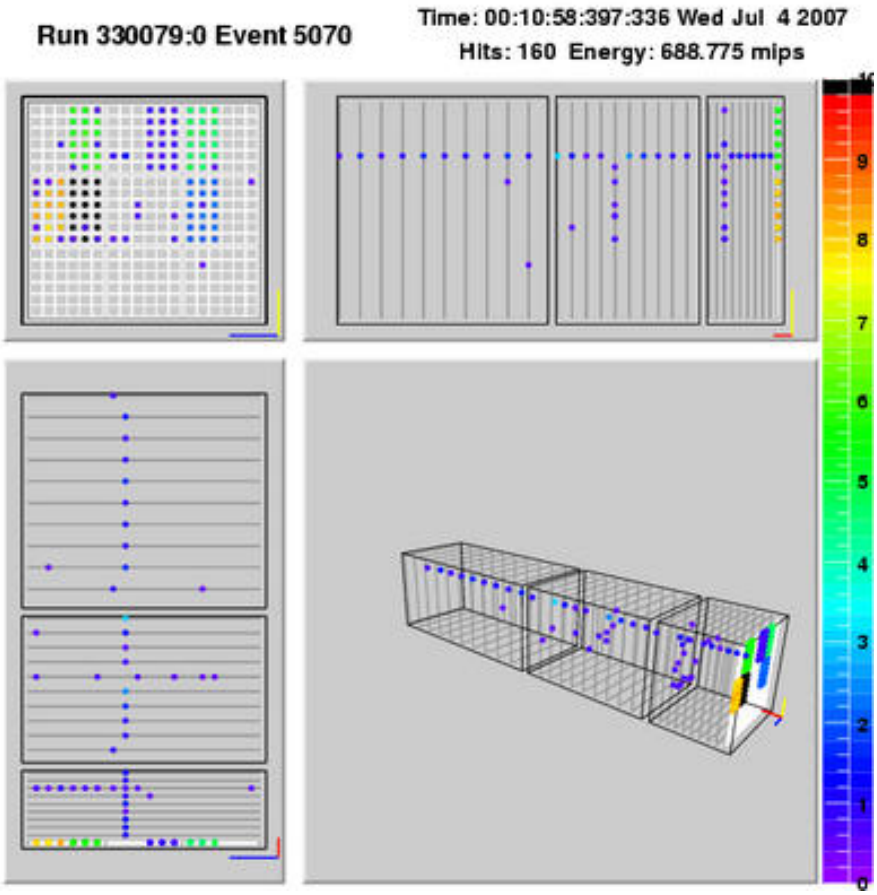
Run 330076 : new settings loaded: file CERN_030707_-0.3V.txt
ECAL : same features, a bit better. First 150 events: layer 0 noisy (~600 MIPS) and total energy up to 900 MIPS.
then it decreases to total energy 100 MIPS...
Some peaks in energy, not in coincidence with HCAL though (see below)....



File: http://ttfinfo.desy.de/CALICEelog/data/2007/27/04.07/2007-07-04T01:07:19-03.eps

2007-07-04 02:11		Anne-Marie,Heng			nominal+0.3		
330079	beamData	20x20	mu-	combined	nominal+0.3	(0,0) for ECAL+HCAL, +40 for TCMT	
330080	PmNoise			combined	nominal+0.3	(0,0) for ECAL+HCAL, +40 for TCMT	
330082	ahcGain	LED		combined	nominal+0.3	(0,0) for ECAL+HCAL, +40 for TCMT	

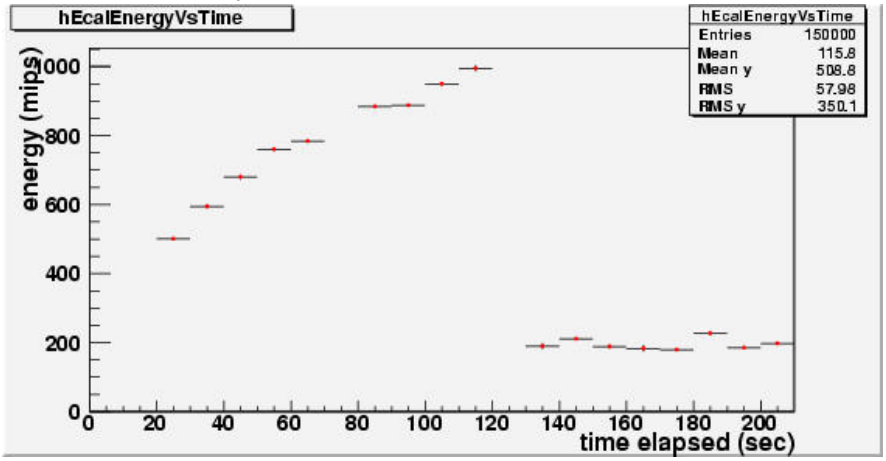
330081 is test run for ECAL in same conditions.
There are several chips in layer 0 (middle raw, left column in (x,y) display, see below) being really
 noisy for 2 minutes (nearly exactly 120s, see plot in next entry, and 12000 beam events),
 showing an increase in total energy for 400 to 900 MIPS, then it goes suddenly to 50
 MIPS per event, and stays relatively flat.
Roman tried to look if the power supply not in slow control was doing weird things, but he saw nothing
 special.
Roman and Marcel will try to track that down tomorrow when installing the new slabs.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/27/04.07/2007-07-04T02:11:00-03.eps

2007-07-04 03:22 Anne-Marie,Hengne,Vishnu **ECAL weird behaviour in first 100s**

How can we put 2 plots in one entry ???
Plot below associated to last entry....



File: http://ttfinfo.desy.de/CALICEelog/data/2007/27/04.07/2007-07-04T03:22:09-02.eps

2007-07-04 03:25 Anne-Marie,Hengne,Vishnu **nominal+0.5**

330083	beamData	20x20	mu-	combined	HCAL:nominal+0.5,TCMT:nomina

330084	PmNoise			combined	HCAL:nominal+0.5,TCMT:nominal	
330085	gain	LED		combined	HCAL:nominal+0.5,TCMT:nominal	

Some observations on HCAL from the monitor plots (330083):

a) Looks noisy in display (probably mip value needs updating)
b) on avg. pedestal seems to be -10 to -15 counts
c) Led per layer shows: -ve value for 31<layer<34, 1st 10 layers inoperational(?)

2007-07-04 04:17 Anne-Marie,Hengne,Vishnu **last setting+back to nominal value**

330086	beamData	20x20	mu-	Combined	HCAL+TCMT voltages-0.5	0,0 (TCMT 40,0)	
330087	PmNoise			Combined	HCAL+TCMT voltages-0.5	0,0 (TCMT 40,0)	
330088	ahcGain	LED		Combined	HCAL+TCMT voltages-0.5	0,0 (TCMT 40,0)	
330089	beamData	20x20	mu-	Combined	nominal	0,0 (TCMT 40,0)	
330090	beamData	20x20	mu-	Combined	nominal	0,0 (TCMT -20,0)	
330091	beamData	20x20	mu-	Combined	nominal	0,0 (TCMT -27.5,0)	

ECAL: first 120s (12000 events) still high noise in layer 0.

Muons rates: 6.2k and 6.7k resp. for 10*10 and 20*20

2007-07-04 07:30 Anne-Marie,Hengne,Vishnu **end of shift**

ECAL, HCAL and TCMT shutdowned at 07.30 am.
Beam gone at 7.33am !!
Good guess ;-)

2007-07-04 12:00 Beni **LED holdscans**

330092	ahcCmLedVcalibScan
330093	ahcPmLedVcalibScan
330094	ahcPmHoldScan
330095	ahcCmHoldScan

2007-07-04 17:03 Fab/Michele **Change in the voltage of DC2 and DC3**

The drift chamber's voltage has been increased to 2850 V (for all three drift chambers).
The threshold of the discriminators have also changed: from 200mV -> 100mV.

2007-07-05 04:54 Marcel and Roman **Ecal ready to rumble**

Hi,

the three new slabs were installed in layers 17-12 bottom.
- After recabling all channels were alive.
- Noise situation satisfactory

Details during tomorrow.

Since we've needed to move the Ecal table, the Ecal might need to
be aligned once more. It is now roughly in the center, fine tunig needed.

Ecal is ready to take data.

Currently the Ecal is switched off.

Marcel and Roman

2007-07-05 08:56 Bernard

ECAL stand position tuned
correspondance with front plate of HCAL done in a more reliable way than before
(i.e. could be reproduced with the same precision by different operators)
"centered" within ~0.5mm
center position set to X=4750 (as before), defined as beam X=0 position
HW range is from 5627 (JURA side) to 3292 (SALEVE side)
SW range will be set to 5620..3600 (current: 5700..3600)
the HW limit on the JURA side is 1mm close to the (mobile) stage hitting the ECAL stage control box

2007-07-05 11:36 Beni **CRC repair**

Matt fixed the broken ADC in FE 2 on CRC SER007. This gives us one spare FE in slot 5.

2007-07-05 12:08 Beni **HCAL HV supply**

We have some lose connections on the HCAL HV-power supply. Careful adjustment of the connectors is necessary.

2007-07-05 12:11 Beni **HCAL stage**

During Svens test this morning we lost the Y-reference. I checked afterwards and found the driver of the Y-motor in error-mode (status 5). Most probably this caused the loss of the reference.

We performed a reference movment. Y is referenced again and at the upper Y limit. I will wait till the motor cooled down before I move the stage to 0,0 again.

2007-07-05 15:49 Erika

330096	AhcPmLedHoldScan	no light in 17/0,17/5,15/4,7/6
330097	AhcPmLedHoldScan	increased light

hopefully with enough light on all modules ;-)

2007-07-05 19:44 Francois/Jean-Yves/Sashu/Erika/Fab

330098	beamData	100x100	mu-	Combined	HCAL+TCMT voltages+0.0	0,0	

Beam file loaded: H6B.226 (120 GeV secondary, beam focused in H6a)

Some collimators' settings have been changed:
C3 from 10 to 15 in JAW1/2
C1 from 10 to 15 in JAW1/2
C10 from 5 to 10 in JAW1/2

Average rate: 1000 pps on 10x10
2000 pps on 20x20
8500 pps on 100x100
Run stopped at 83K events
Average DAQ rate 84Hz

2007-07-05 19:44 Francois/Jean-Yves/Sashu/Erika/Fab

330099	beamData	100x100	mu-	Combined	HCAL+TCMT voltages+0.0	0,0	

Beam file loaded: H6B.226 (120 GeV secondary, beam focused in H6a)

Some collimators' settings have been changed:
C3 from 10 to 15 in JAW1/2
C1 from 10 to 15 in JAW1/2
C10 from 5 to 10 in JAW1/2
C11 from 5 to 10 in JAW1/2

Average rate: 1800 pps on 10x10
4000 pps on 20x20
14000 pps on 100x100

beam stopped -> run stopped

2007-07-05 19:45 Francois/Jean-Yves/Sashu/Erika/Fab

330100	beamData	100x100	mu-	Combined	HCAL+TCMT voltages+0.0	0,0	

run stops automatically after 2000 events.
=> junk run

.**********

I am not sure what the above entry means. The run on disk has 28613 events
as is easily shown using:
icalice00> count 330100
It seems to have been stopped by the run operator "by hand" as the log file
Log1183650014.out_icalice00
shows the next run and sequence starts immediately. If the run had stopped
itself, the DAQ would have gone to a slow monitoring run until the operator
started run 330101 manually. I would guess the run was fine.
Paul

2007-07-05 19:45 Francois/Jean-Yves/Sashu/Erika/Fab

330101	beamData	100x100	mu-	Combined	HCAL+TCMT voltages+0.0	0,0	
330102	beamData	100x100	mu-	Combined	HCAL+TCMT voltages+0.0	0,0	

run 330101 250k events
run 330102 140k events
!
the trigger's delay of the ECAL may not be perfect => to be checked
possible offset in ECAL mip calibration collected with these runs
! !

2007-07-05 19:49 Francois/Jean-Yves/Sasha/Erika/Fab

330104	beamData	100x100	mu-	Combined	HCAL+TCMT voltages+0.0	0,0	
330105	beamData	100x100	mu-	Combined	HCAL+TCMT voltages+0.0	0,0	
330106	beamData	100x100	mu-	Combined	HCAL+TCMT voltages+0.0	0,0	
330107	beamData	100x100	mu-	Combined	HCAL+TCMT voltages+0.0	0,0	

change hold values for 100x100 trigger according to Marius analysis
(see log entry in analysis folder)
run 3300103 can have different MIP position w.r.t. previous runs
due to this change. Please use this run (and next ones) for calibration

run 330104 250k events
run 330105 250k events
run 330106 250k events
run 330107 248k events

!
the trigger's delay of the ECAL may not be perfect => to be checked
possible offset in ECAL mip calibration collected with these runs
!

2007-07-05 22:09 PaulD

Looking at the run 330100, I see the ECAL slot 5
was not being read out, even though it was enabled.
(Fully enabled, which is probably not intentional.)
I don't know when this error restarted.

Because the runs since are being taken without the
histogramming enabled, it is not easy to check if
the error is still present. It is not normally a
good idea to disable the histogramming.
Paul

2007-07-05 22:43 Francois/Jean-Yves/Sasha

330109	ahcPmNoise	100x100	mu-	Combined	HCAL+TCMT voltages+0.0	0,0	

20 000 events stored

2007-07-05 22:44 Francois/Jean-Yves/Sasha

330110	ahcGain	100x100	mu-	Combined	HCAL+TCMT voltages+0.0	0,0	

2007-07-06 00:18 Alex, Yoshi, AM **beamHoldScan**

330111	beamHoldScan	100x100	mu-	combined	nominal voltages	0,0	garbage
330112	beamHoldScan	100x100	mu-	combined	nominal voltages	0,0	

330111 was started with wrong DAQ settings.

330112 scalers; H6B_EXPT01 1.8E+03 pps (10cmX10cm)
H6B_EXPT02 4.0E+03 pps (20cmX20cm)
H6B_EXPT03 1.4E+04 pps
H6B_EXPT04 4.2E+01 particles/spill

ECAL noisy layers, #1, #15 and #17.
Average event rate in Run is ~90Hz.

Run330112 stopped at 81 configurations and collected 300k events

caliceserv local time is two hours late.

2007-06-06 17:51 Doerte David **assembling status**

All cassettes are done once. But...

Modules # 24 and 36 have many bad SiPMs which should be exchange. The very last spare SiPMs will come from Moscow 17.06.07 and will be changed Monday 18.06.07.

New modules # 1 and 2

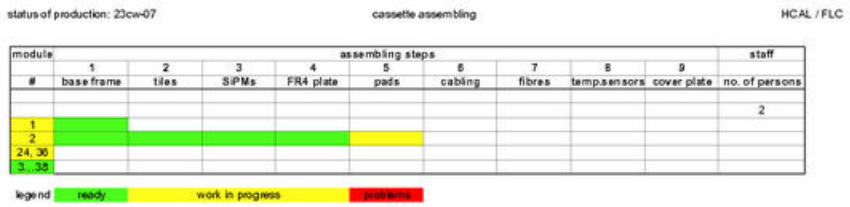
All tiles are already tested at DESY.
2 New FR4 plates were prepared with standard holes for mirrors.

We started with cassette 2. Due to a misadjustment all holes for SiPMs were shifted though we could not use that plate. The plate for module 1 was taken instead and redrilled correctly. Therefore a new plate has to be prepared and we have a delay.

Unfortunately the drilling machine brake down. Spare has to be ordered and we do not know when it will be delivered.

Nevertheless we try to finish assembling (and testing) Friday 22.06.07.

cassettes work in progress: 1, 2
cassettes waiting for spare SiPMs: 24, 36
cassettes ready for transport: 3...38



File: http://ttfinfo.desy.de/CALICEelog/data/2007/23/06.06/2007-06-06T17:51:23-00.pdf

2007-06-11 08:00 Erika **2007 installation**

START OF 2007 INSTALLATION

2007-06-14 10:38 Doerte David **assembling status**

Modules # 1 and 2

Good news: The broken drilling machine was repaired already on Monday though production is going on continuously.

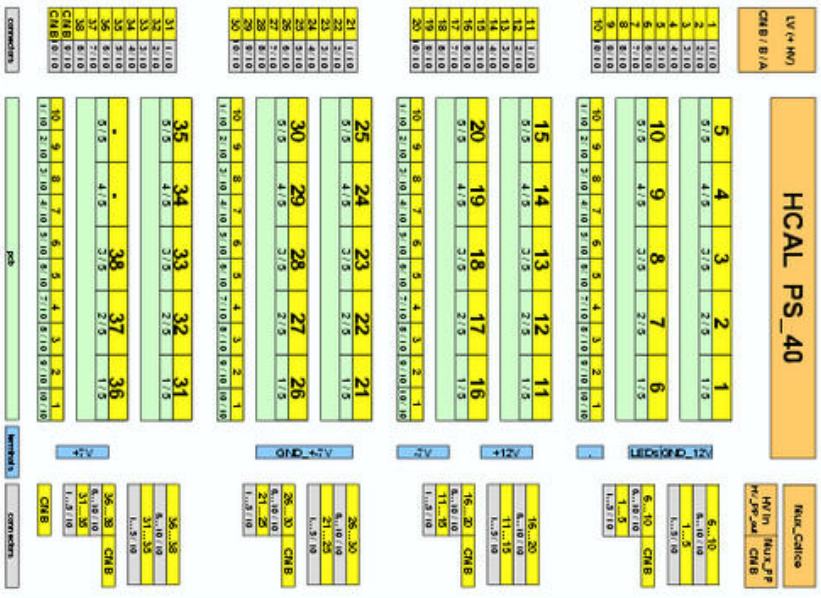
cassettes work in progress: 1 - 2
cassettes waiting for spare SiPMs: 24, 36
cassettes at CERN: 3...38



File: http://ttfinfo.desy.de/CALICEelog/data/2007/24/14.06/2007-06-14T10:38:59-00.pdf

2007-06-14 16:41 Doerte David **slow control PS-40-modules**

power supply
- LV and HV for all modules
- monitoring
- safety circuit
printed circuit boards in the middle
plates with connectors left and right side



File: http://ttfinfo.desy.de/CALICEelog/data/doc/electronics/2007-06-14T16:41:30-00.pdf

2007-06-17 12:23 Erika **module & cable checks**

position	module	fe	comment
9	11	1	ok, HAB 5 coherent noise
10	12	2	ok
11	13	3	ok
12	14	4	ok
13	15	2	ok

14	16	1	ok
15	17	3	B-cable broken
16	18	4	A-cable broken, HAB 6 coherent noise
17	19	1	B-cable broken
18	20	4	B-cable broken
19	21	3	ok
20	22	2	ok, HAB 4 coherent noise
21	23	4	ok, HAB 2 coherent noise
22	25	3	ok
23	26	2	A-cable broken
24	27	1	ok
25	28	2	ok
26	29	1	ok
27	30	3	A-cable broken
32	31	1	ok
33	32	2	B-cable broken
34	33	3	ok
35	34	4	ok, HAB 6 coherent noise
36	35	3	ok
37	37	2	ok, HAB 8 coherent noise
38	38	1	ok, HAB 1 coherent noise

This test was done with the _DESY_ test-beam DAQ and a protype CRC in slot 12.

2007-06-17 16:32 Erika **repair work**

AHCAL LV/HV distribution to modules checked. works fine.
All LV/HV cables repaired.
All installed modules are powered and tested.
8 modules at CERN + 4 modules at DESY are missing.

A total of 15 SCSI cables have to be exchanged for the AHCAL.

2007-06-20 09:53 > **[Fwd: caliceserv - lcio and root installed]**

Dear Colleagues,

I have installed root (v5.14.00f) and lcio (v01-08-02) on caliceserv .

root has been configured in the following way:

./configure --disable-rfio --disable-castor --disable-dcache --disable-gfal

The machine can be freely used.
I will announce times when I need it for test purposes.

Cheers,

Roman

I should add that root can be found via $ROOTSYS and LCIO via $LCIO.

The .bin files are visible via /mnt/data00 (01)

2007-06-20 11:02 Beni **calice00 login problems**

The reason for the calice00 login problems was most probably a full root partition. Someone saved hughe software archives in / and /root. Please, use a different location for software installation in future. I moved some data from this places to /srv/calice/data01/root_bk. If you miss something look there first.

I still have some problems to get the system back online. I will edit this entry if the system is back.

EDIT: Computer is back online. For security reasons the root password was changed.

2007-06-21 13:41 Doerte David **assembling status**

All cassettes are assembled!

SiPMs for module # 24 and 36 are exchanged.

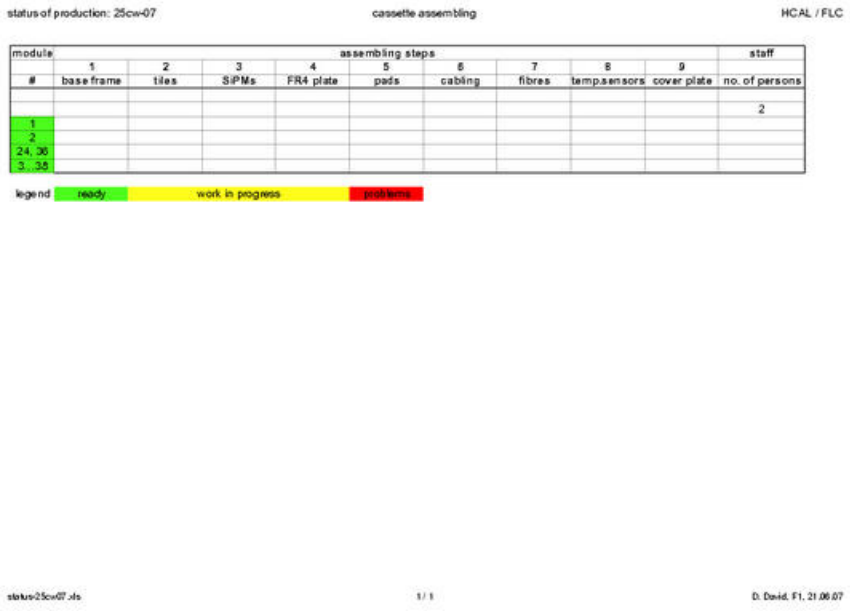
Module 2 has one half with new the other half with old SiPMs/tiles.

Module 1 has a pure mix of old SiPMs. All were tested, all are working but not with best conditions.

Hopefully it will be ok as long as necessary.

Shipment to CERN will be next Wednesday by our colleagues.

```
cassettes work in progress:              ./.
cassettes (nearly) ready for transport:  1, 2
                                        24, 36
cassettes at CERN:                       3...38
```



status of production: 25cw-07 | cassette assembling | HCAL / FLC

module	assembling steps									staff
	1	2	3	4	5	6	7	8	9	
#	base frame	tiles	SiPMs	FR4 plate	pads	cabling	fibres	temp.sensors	cover plate	no. of persons
										2
1										
2										
24, 36										
3...35										

legend: ready | work in progress | problems

status-25cw07.xls 1 / 1 D. David, F1, 21.06.07

File: http://ttfinfo.desy.de/CALICEelog/data/2007/25/21.06/2007-06-21T13:41:35-00.pdf

2007-06-23 00:25 — Ecal Installation

```
Dear Colleagues,

today a team of LLR/LAL with support from the DESY team at CERN has
installed the SiW-Ecal in front of the
AHcal. The installation went very smooth, nothing particular to report.

The Ecal assembly consists of the the central 15 slabs (=30 layers) and
6  lower  slabs. The r/o cables were connected to the
PCBs. Cables for three more slabs expected to be commissioned very soon
are in place. The final routing of the cables
to the rack housing the CRC boards will be done (or has already been
done)  by K. Gadow.

The Ecal is ready for the electronis tests which will start monday morning.

Cheers,

Roman

P.S.: A table with the current cabling is attached to this posting
```

Layer	PCB	Old cable #	New cable#	slot	fe	
0	11_C	13	1A	17	4	
0			1C	5	0	
1	12_C	1	1B	15	0	
1			1D	5	0	
2	4_C	14	2A	17	5	
2			2C	5	1	
3	5_C	2	2B	15	1	
3			2D	5	1	
4	6_C	15	3A	17	6	
4			3C	5	2	
5	7_C	3	3B	15	2	
5			3D	5	2	
6	3_C	16	4A	17	7	
6			4C	5	3	
7	8_C	4	4B	15	3	
7			4D	5	3	
8	9_C	17	5A	9	6	
8			5C	5	4	
9	10_C	5	5B	15	4	
9			5D	5	4	
10	13_C	18	6A	19	1	
10			6C	5	5	
11	14_C	6	6B	15	5	
11			6D	5	5	
12	15_C	19	7A	19	2	
12			7C	5	6	
13	16_C	7	7B	15	6	
13			7D	5	6	
14	18_C Unlabelled		8A	19	3	
14			8C	5	7	
15	19_C	8	8B	15	7	
15			8D	5	7	
16	23_C	21	9A	19	4	
16			9C	7	0	
17	25_C	9	9B	17	0	
17			9D	7	0	
18	26_C	22	10A	19	5	
18	7_D		10C	7	1	
19	27_C	10	10B	17	1	
19	7_G		10D	7	1	
20	17_C	25	11A	19	6	
20	3_D		11C	7	2	
21	20_C	11	11B	17	2	
21	3_G		11D	7	2	
22	21_C	24	12A	19	7	
22	4_D		12C	7	3	
23	22_C	12	12B	17	3	
23	4_G		12D	7	3	
24	28_C	27	13A	9	3	
24	5_D		13C	7	4	
25	30_C	30	13B	9	1	
25	5_G		13D	7	4	
26	31_C	26	14A	9	4	
26	6_D		14C	7	5	
27	32_C	29	14B	9	2	
27	6_G		14D	7	5	
28	33_C	31	15A	9	5	
28	8_D		15C	7	6	
29	29_C	28	15B	9	0	

File: http://ttfinfo.desy.de/CALICEelog/data/2007/25/23.06/2007-06-23T00:25:02-00.pdf

2007-06-23 09:18 | Alexander, Sebastian | **HV does not switch on**

CAN bus cable was disconnected at HV supply

2007-06-24 15:22 S. Schaetzel **PIN diode read-out working again**

The read-out of the HCAL PIN diodes had suffered badly from the transport to CERN. It has been rebuilt
and was checked today: All 432 channels are working.

2007-06-24 17:41 **first AHCAL run taken, gain comissioning run**

350000	ahcGain	modules 37 & 38 connected
350001	ahcGain	

these runs were without proper hold

2007-06-24 17:43 **broken FEs**

AHCAL slot 5 FE 1 bad pedestal and noise on one channel (Matt claimed he repaired this, but I still see it)
AHCAL slot 5 FE 2 B side doesn't receive SR anymore (this is new since DESY)

2007-06-24 21:07 Beni **holdscan**

350002	ahcCmLedHoldScan	CMB was not properly set up
350003	ahcCmLedHoldScan	
350004	ahcPmLedHoldScan	

2007-06-24 21:10 Beni **gain comissioning**

350005	ahcGain

2007-06-25 15:00 Beni **trigger test run**

330005	beamData	-v 21 -m 1

2007-06-25 17:07 **hadronic analysis note**

This note contains preliminary CALICE results, and is for the use of membe
rs of the Calice Collaboration and others to whom permission has been given.

TITLE:
Preliminary results from hadron shower data with the CALICE tile AHCAL prototype



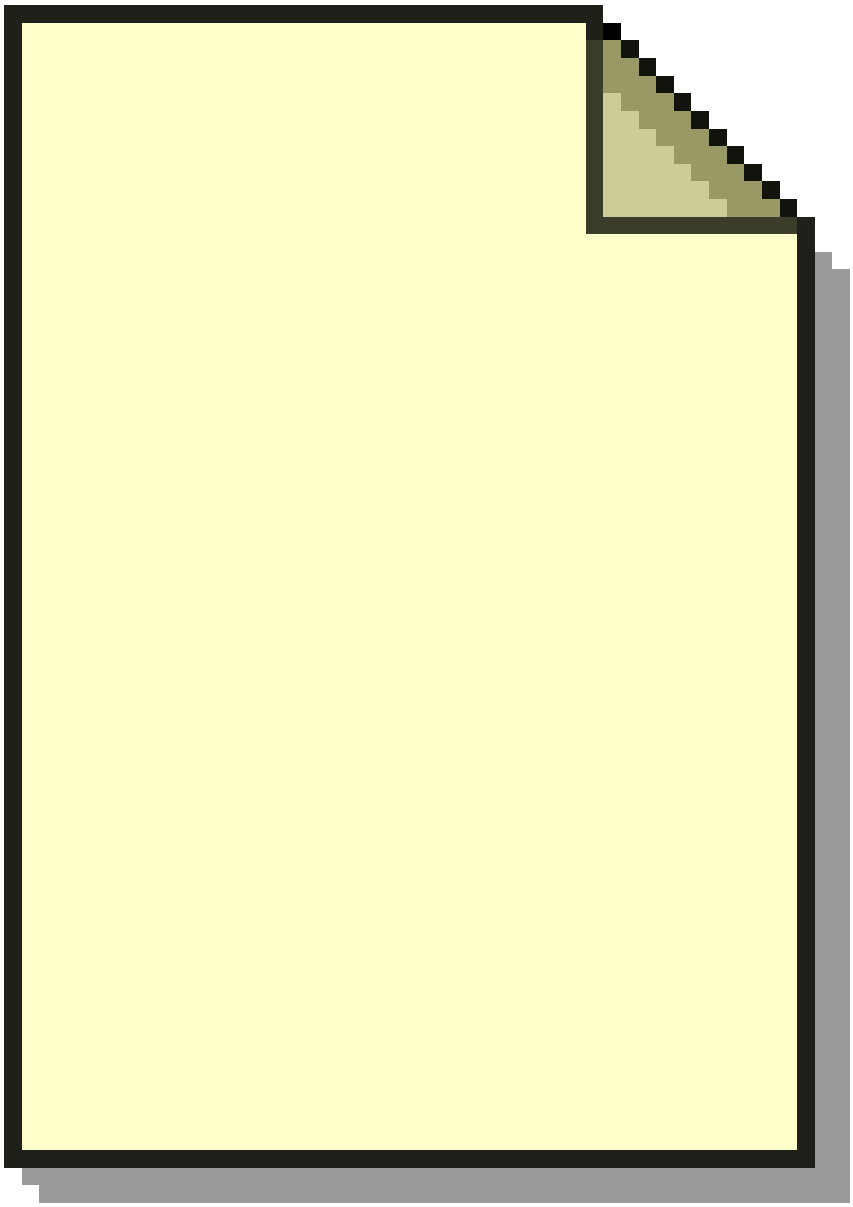
File: http://ttfinfo.desy.de/CALICEelog/data/Analysis/AHCAL/Hadronic shower analysis/2007-06-25T17:07:55-00.pdf

2007-06-25 18:07 **Combined Pion Analysis note by NIU for LCWS 2007**

Combined Pion Analysis note by NIU for LCWS 2007

This note contains preliminary CALICE results, and is for the use of membe
rs of the Calice Collaboration and others to whom permission has been given.

TITLE:
Preliminary study of the combined response of the CALICE calorimeter prototypes to pion beams



File: http://ttfinfo.desy.de/CALICEelog/data/Analysis/AHCAL/Hadronic shower analysis/2007-06-25T18:07:15-00.pdf

2007-06-25 19:57 Beni **DAQ fibres are routed wrongly**

ATTENTION!

During ECAL cabeling work we realized that the fibres reading the two VME-crates are routed on a wrong path.

If we would do the plate/stack shift now this fibres would get ripped off.

2007-06-26 00:50 > **Electronic Test of Ecal**

Today Jean-Charles, Akli and R.P. have made the electronic installation of the SiW-Ecal

- Verification of power supply cables and proper (and creative) arrangement of power supplies
- Routing of (new) optical fibre for slow control (the one which was installed lead to crashes of the slow control program).

- Electronic Tests

a) Noise was very sensitive to the actual voltage of the -5 V Power supply. After proper adjustment

the noise fell from 1000 ADC counts to 6 ADC counts
Is this sensitivity a reason for our noise problems which we have from time to time?

All (observable) Channels between 6 (90% of the FE) and 14 (10% of the FE) ADC counts

b) Connectors of lower slabes were installed in the wrong order -> Can be solved by
switching the connectors or rejumpering the Crc Board (might be the easier solution).

Correction RP: No rejumpering but switching from left to right connectors on Crc Board

Therefore no measurement of the noise in these layers.

Cheers,

Roman

2007-06-26 11:49 > **No computing in control room - 26.6.07 20:00h - 22:00**

Dear Colleagues,

due to the movement of the control room computers from the actual control room to the cooled cabinet opposite to it.

•The calice computers won't be available today 26.6.07 between 20:00h and 22:00h*

Please logoff well in advance. The computers will be shutdown on 20:00h without further notice.

I will announce via the elog when the computers will be available again.

Cheers,

Roman

2007-06-27 04:30 **Computers up again**

All computers in the control room are up again.

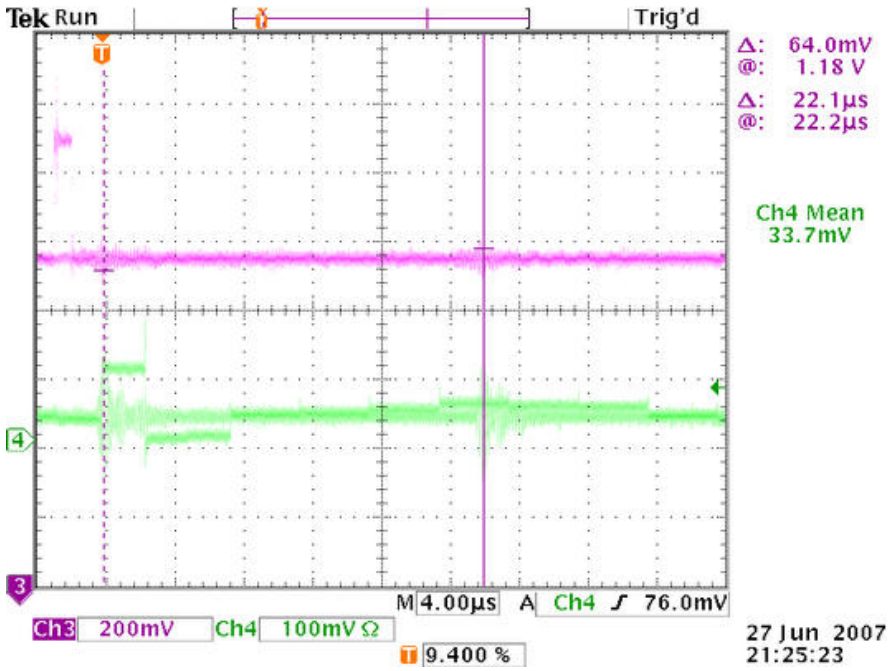
Beni and Roman

2007-06-27 21:34 Alexander, Sebastian **Noise on SiPM**

There is noise on the SiPM signal line.
The attached scope picture shows:

- purple: Tcalib taken on CMB connector at module
- green: SiPM analogue HAB outlet (LEMO)

Picture is average over 128 events, randomly shared by scope triggered on Tcalib and on noise.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/26/27.06/2007-06-27T21:34:46-00.png

2007-06-27 22:34 G.Mavromanolakis **monitor installed**

```
a first version of the monitor code is installed at caliceon@caliceserv
under /scratch/software/calice_soft/monitor_caliceon/monitor

 ./start_gui.sh to open the gui/panels
 ./start_sender.sh to process data

more details and instructions can be found in the README.txt or by pressing the
"Help" button at the gui.

The mapping/cabling files for the ecal,hcal,tcmt are not available yet.
```

2007-06-28 16:45 **new AHC.cfg**

```
All AHCAL modules are installed and cabled.
CMBs are installed for all modules with non-zero entries.

slot fe detector module position cmb canbus pinId

5 0 AHCAL8 38 38 36 38 99 0 33 61 28000 31000
5 3 AHCAL8 37 37 40 37 99 0 35 63 28000 31000
5 4 AHCAL8 35 36 39 35 99 0 00 00 28000 31000
5 5 AHCAL8 34 35 37 34 99 0 00 00 28000 31000
5 6 AHCAL8 33 34 28 33 99 0 00 00 28000 31000
5 7 AHCAL8 32 33 35 32 99 0 00 00 28000 31000

7 0 AHCAL8 31 32 34 31 99 0 00 00 28000 31000
7 2 AHCAL8 36 31 0  0  0  0 0  0  0     0
7 3 AHCAL  24 30 0  0  0  0 0  0  0     0
7 4 AHCAL  1  29 0  0  0  0 0  0  0     0
7 6 AHCAL  2  28 0  0  0  0 0  0  0     0
7 7 AHCAL  30 27 23 30 99 0 00 00 28000 31000

9 1 AHCAL  29 26 26 29 99 0 00 00 28000 31000
9 2 AHCAL  28 25 10 28 99 0 00 00 28000 31000
9 3 AHCAL  27 24 38 27 99 0 00 00 28000 31000
9 4 AHCAL  26 23 22 26 99 0 00 00 28000 31000
9 6 AHCAL  25 22 16 25 99 0 00 00 28000 31000
9 7 AHCAL  23 21 21 23 99 0 00 00 28000 31000

15 1 AHCAL 22 20 32 22 99 0 00 00 28000 31000
15 2 AHCAL 21 19 24 21 99 0 00 00 28000 31000
15 3 AHCAL 20 18 0  0  0  0 0  0  0     0
15 4 AHCAL 19 17 27 19 99 0 00 00 28000 31000
15 6 AHCAL 18 16 15 18 99 0 00 00 28000 31000
15 7 AHCAL 17 15 25 17 99 0 00 00 28000 31000

17 0 AHCAL 16 14 29 16 99 0 00 00 28000 31000
17 1 AHCAL 15 13 3  3 99 0 00 00 28000 31000
17 2 AHCAL 14 12 8  14 99 0 00 00 28000 31000
17 3 AHCAL 13 11 0  0  0  0 0  0  0     0
```

```
17 5 AHCAL 12 10 0  0  0  0 0  0  0     0
17 6 AHCAL 11 9  0  0  0  0 0  0  0     0
17 7 AHCAL 10 8  0  0  0  0 0  0  0     0

19 0 AHCAL 9 7   0  0  0  0 0  0  0     0
19 1 AHCAL 8 6   0  0  0  0 0  0  0     0
19 2 AHCAL 7 5   0  0  0  0 0  0  0     0
19 3 AHCAL 6 4   0  0  0  0 0  0  0     0
19 5 AHCAL 5 3   0  0  0  0 0  0  0     0
19 6 AHCAL 4 2   0  0  0  0 0  0  0     0
19 7 AHCAL 3 1   0  0  0  0 0  0  0     0

12 5 TCMT DAC_tcmt1.dat 34 34 64 15000 15000
12 6 TCMT DAC_tcmt2.dat 34 34 64 15000 15000
```

2007-06-28 21:17 **pedestal check run**

350012	ahcPmNoise						50000 events

```
check dead channels, noisy HABs, etc...
HV is on for most modules except for problematics ones with very high current
or non-programmable FE.
```

2007-06-29 13:56 A.-M. Magnan **debugging run**

330007	ahcBeam	10x10	muon	
330008	beamData	10x10	muon	

```
Comment: 10x10 corresponds to option -v 21 .
         -m 1 option enabled : i.e.  taking/buffering data during spill then transferring between
 spills.
Muon rate : 4100 in 10x10 (H6B_EXPT02 in scaler status)
            4400 in 20x20 (H6B_EXPT01)
DAQ average trigger rate : 450 Hz in spill.

Stopped after 20,000 events.

Trigger configuration at the moment:

the trigger we used is the coincidence of the backplane VME input 5 and 6
corresponding to the two 10x10 triggers (-v 21).
the 20x20 digital trigger is in input 9 of the back plane
the 4 plates of the veto counter are in trig. 1-4
only one 100x100 muon counter is in the line (in the back of the TCMT) and connected to backplane
 input 7.

still no analog readout for the 20x20 counter.
```

2007-06-29 16:25

330010	beamHoldScan	10x10	muon

⚠ 2007-06-29 16:52 Nanda **comparison between 10 and 50 GeV secondary beam**

```
Comparison of HCAL stand alone electron data from august / september '06 from 10 and 50 GeV
secondary
 beam. All runs are handled exactly the same concerning trigger selection (3cmx3cm trigger
 on & 100cmx100cm trigger of), calibration to mip scale, cut at 0.5 mip, saturation
 correction.
Used runs:
320678 = 10 GeV from 50 GeV secondary beam
320671 = 15 GeV from 50 GeV secondary beam
320666 = 20 GeV from 50 GeV secondary beam
and
320603 = 10 GeV from 10 GeV secondary beam
320585 = 15 GeV from 10 GeV secondary beam
320608 - 20 GeV from 10 GeV secondary beam

The energy sums already show significant disagreement:
The 10 GeV seconmdary beam runs always end up at a higher mean value, and a worse
resolution. The bigger the energy, the bigger the difference.

The reason for this is shown in the number of hits above threshold plots.
While they are in reasonable agreement for 10 GeV, the spectrum of the 20
GeV tertiary beam resulting from a 10 GeV secondary beam seems to be
splitted into 3 peaks. The first peak might be muon contribution, although I
don't see any in the corresponding run from a 50 GeV secondary beam. But the
close by main peaks, indicate that it is not a good idea to extract a
tertiary beam from the tail of a secondary one.
```

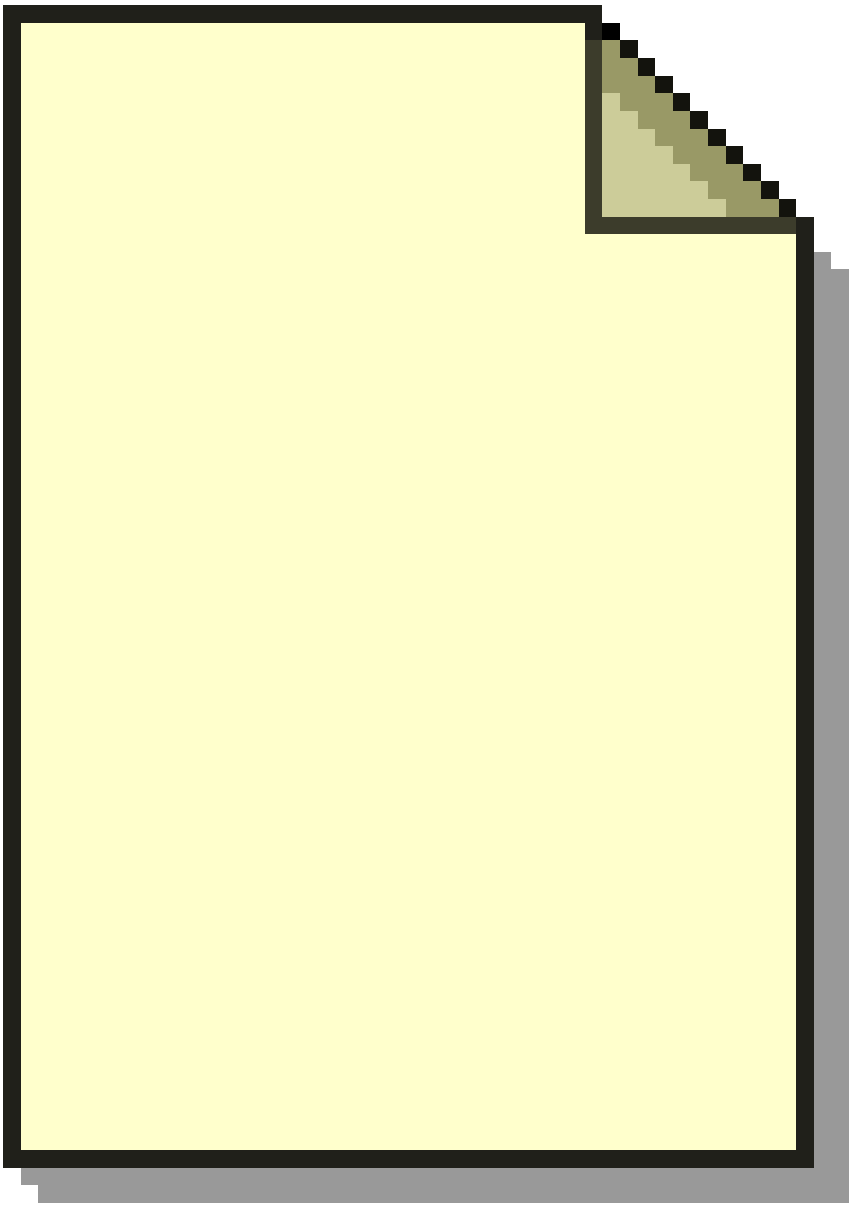


File: http://ttfinfo.desy.de/CALICEelog/data/Analysis/AHCAL/EM shower analysis/2007-06-29T16:52:04-04.pdf

2007-06-29 17:18 Nanda **em shower analysis note**

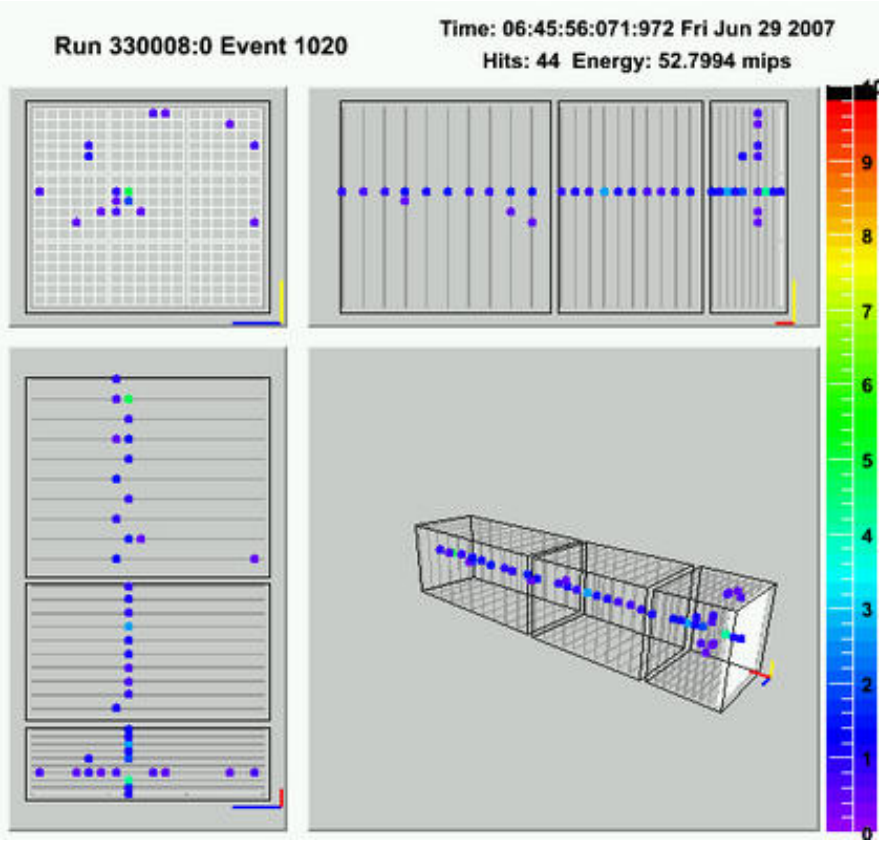
This note explaeins the analysis procedure and contains preliminary CALICE results.
It is for the use of members of the Calice Collaboration and others to whom permission has been given.

TITLE:
First results from electron data with the CALICE tile HCAL prototype at the CERN test-beam



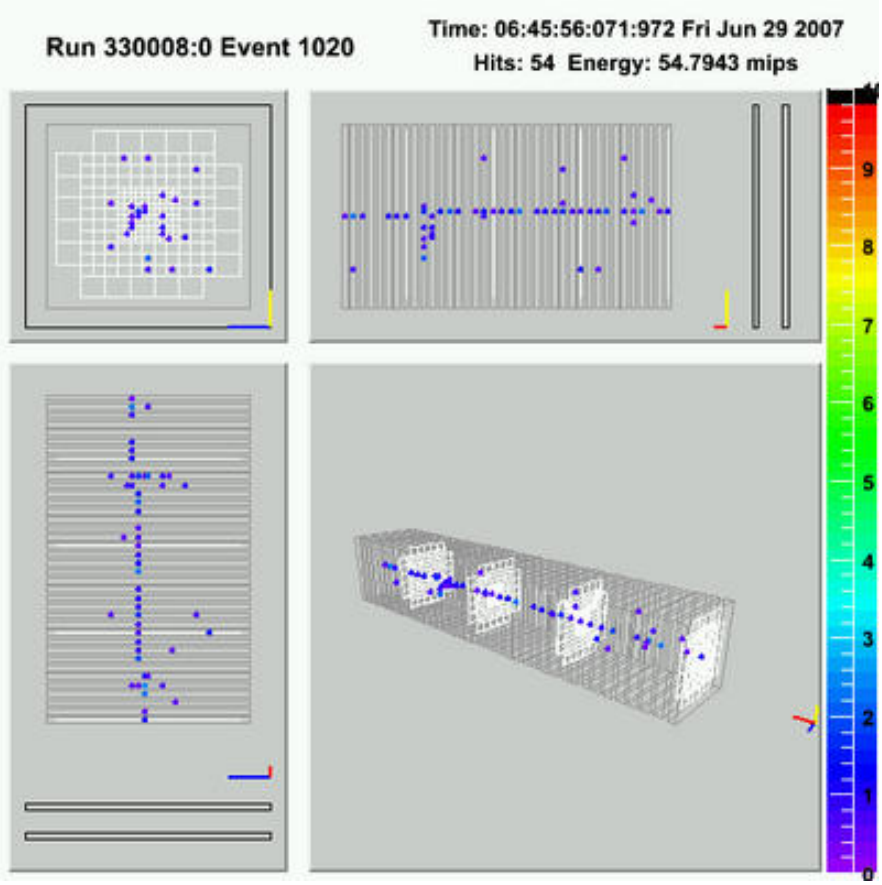
File: http://ttfinfo.desy.de/CALICEelog/data/Analysis/AHCAL/EM shower analysis/2007-06-29T17:18:50-00.ps

2007-06-29 17:38 G.Mavromanolakis **muon through ecal**



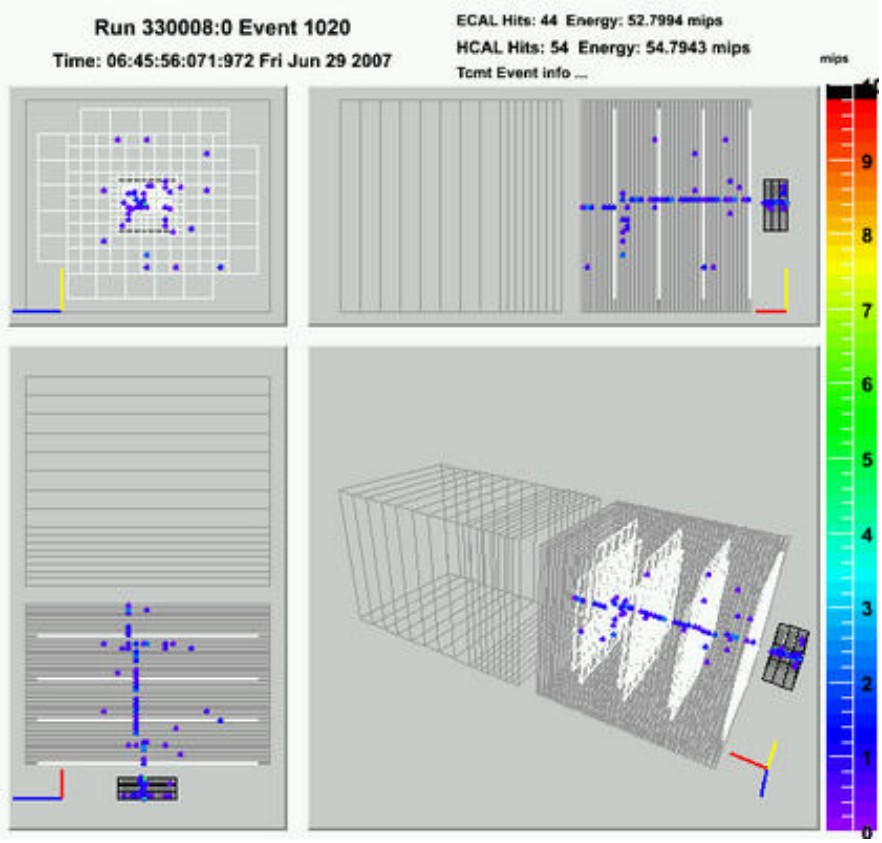
File: http://ttfinfo.desy.de/CALICEelog/data/2007/26/29.06/2007-06-29T17:38:44-03.gif

2007-06-29 19:19 G.Mavromanolakis **muon through hcal**



File: http://ttfinfo.desy.de/CALICEelog/data/2007/26/29.06/2007-06-29T19:19:42-00.gif

2007-06-29 19:20 G.Mavromanolakis



File: http://ttfinfo.desy.de/CALICEelog/data/2007/26/29.06/2007-06-29T19:20:44-00.gif

2007-06-29 19:22 **Portal online**

Dear Colleagues,

the portal enabling e.g. remote observation and the piloting of the ongoing testbeam at cern
is available now.

This tool has been developed by Sven Kartensen from DESY.

You're invited to have a look at

https://calice-portal.cern.ch

You need to know the password of the caliceon account on the control room computers.

Thanks to CERN IT to open the gate in the cern firewall.

Cheers,

Roman

2007-06-29 20:00 Beni **gui debug runs**

330011	
330012	
330013	ahcCmLedHoldScan

2007-06-30 10:58 Beni **debug and coherent noise**

350024	ahcPmNoise	-e 10000

2007-06-30 11:33 Erika **trigger logic scheme**

NIM/LVDS converter connections to VME back plane

LVDS_input	Backplane_input	signal
1	1	veto up-left*
2	2	veto down-right
3	3	veto up-right
4	4	veto down-left
5	5	1st 10x10 trig (front DC1)
6	6	2nd 10x10 trig (front ECAL)
7	7	100x100 trig (back TCMT)
8	8	100x100 trig ONLY for muon runs
-	9	feedback trigger from output 15
10	10	20x20 trig
16	0	spill signal

(*) the positions of the 4 veto counters are given w.r.t. the incoming beam (looking downstream)

the two 10x10 triggers are used in coincidence (internally in the DAQ) as main trigger
all other trigger bits are only for offline analysis

2007-06-30 11:46 Erika **HV mapping**

CAEN ch	cable	detector	HV
0	11	veto up-left	1660
1	12	veto down-right	1550
2	13	veto up-right	1450
3	14	veto down-left	1750
4	31	100x100 back	2500
5	32	100x100 front	
20	23	20x20 digital	1650
21	24	20x20 analog	1500
22	25	10x10 front	1450
23	26	10x10 back	1500

36		DC1	2800
37		DC2	2800
38		DC3	2850

2007-06-30 14:09 Marius **Pedestal first look into Run 350012**

The plot shows the distribution of the pedestal RMS.
- in total 6809 channels contribute to the histogram: the requirement is
mean > 10 && RMS > 20 channels to reject dead channels and electronic noise

- MPV is around 33 channels, which is ok

- number of channels in the tail (>70 ch.) is 252, where 109 belongs to module 1 & 2
and 86 ch. show long-discharge. The other 166 ch. have mostly broader pedestals.

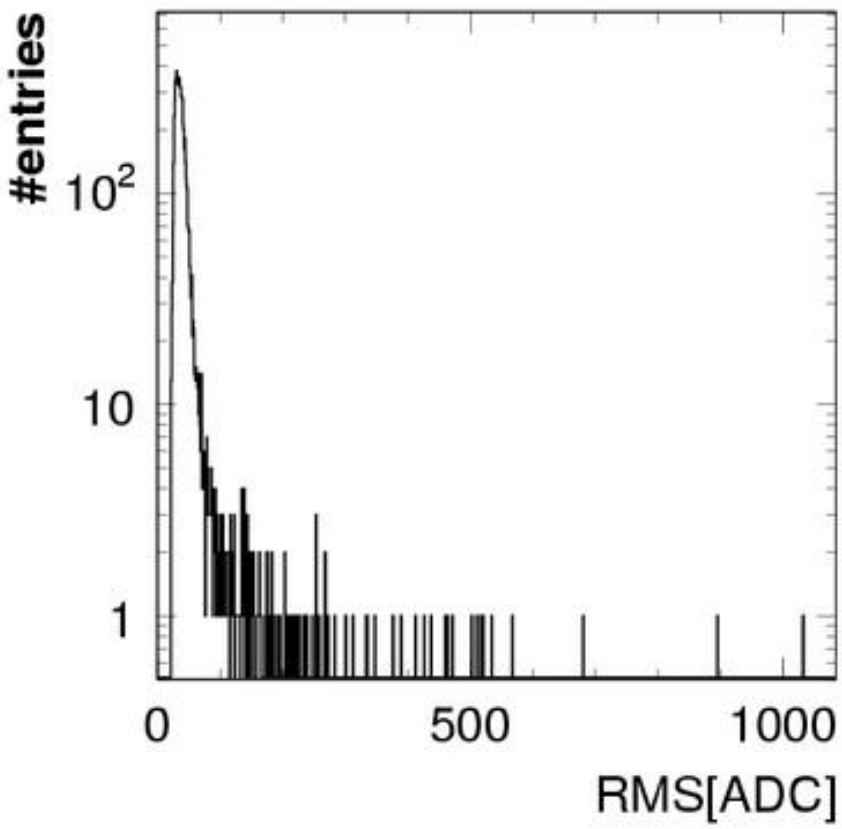
No signal at all:
- slot 5/fe 5 = module 34: chips 0-3 (first half) no signal
- slot 5/fe 6 = module 33: chips 0-3 (first half) no signal + one dead channel in second half (chip
 8/ chan 15)
- slot 7/fe 2 = module 36: chips 8-11 (second half) negative pedestal (quite high)
- slot 17/fe 3 = module 13: chip 6/chan 2: negative pedestal
- slot 19/fe 0 = module 9: chip 0-5 (first half): negative pedestal (quite high)

Channels with VFE noise only: SiPM not working
- slot 5/fe 0 = module 38: 3 channels off
- slot 5/fe 3 = module 37: 3 channels off
- slot 5/fe 4 = module 35: 5 channels off
- slot 5/fe 5 = module 34: 3 channels off
- slot 5/fe 6 = module 33: 3 channels off
- slot 5/fe 7 = module 32: 4 channels off
- slot 7/fe 0 = module 31: 4 channels off
- slot 7/fe 3 = module 24: 2 channels off
- slot 7/fe 4 = module 01: 39 channels off
- slot 7/fe 6 = module 02: 29 channels off
- slot 7/fe 7 = module 30: 1 channel off
- slot 9/fe 1 = module 29: 3 channels off
- slot 9/fe 3 = module 27: completely off
- slot 9/fe 4 = module 26: 1 channel off
- slot 9/fe 7 = module 23: 3 channels off
- slot 15/fe 2 = module 21: 1 channel off
- slot 17/fe 1 = module 15: 2nd half completely off
- slot 17/fe 2 = module 14: 1 channel off
- slot 17/fe 3 = module 13: 2 channels off
- slot 17/fe 5 = module 12: 3 channels off
- slot 17/fe 6 = module 11: 2 channels off
- slot 19/fe 0 = module 09: 1 channel off
- slot 19/fe 1 = module 08: 1 channel off
- slot 19/fe 3 = module 06: 2 channels off
- slot 19/fe 5 = module 05: 4 channels off
- slot 19/fe 6 = module 04: 8 channels off

```
- slot 19/fe 7 = module 03: 12 channels off

=> some modules / modules half have to be recovered
=> the list of dead is channels is not ok, but module 1 & 2 have a lot of dead channels and
 in addition long-discharge as well

p.s: detailed list of long dischaged and dead sipm channels has been sent to the AHCAL experts at
 CERN
```



File: http://ttfinfo.desy.de/CALICEelog/data/Analysis/AHCAL/2007-06-30T14:09:30-00.eps

2007-06-30 14:59 **AHCAL + TCMT mapping**

```
1.  format:
2.  for AHCAL : slot fe AHCAL moduleNo stackPos cmbId cmbCanAdr cmbPinId Hold_ext
Hold_CM_LED Hold_PM_LED Vcalib_CM Vcalib_PM
1.  for TCMT  : slot fe TCMT dacFileName Hold_ext Hold_CM_LED Hold_PM_LED Vcalib_C
M Vcalib_PM
1.  for PIN   : slot fe PIN hold PIN_HBAB
2.  for PMT   : slot fe PMT hold

5 0 AHCAL8 38 38 36 38 99 15 33 61 28000 31000
5 3 AHCAL8 37 37 40 37 99 15 35 63 28000 31000
5 4 AHCAL8 35 36 39 35 99 15 35 00 28000 31000
5 5 AHCAL8 34 35 37 34 99 15 34 00 28000 31000
5 6 AHCAL8 33 34 28 33 99 15 34 00 28000 31000
5 7 AHCAL8 32 33 35 32 99 15 35 00 28000 31000

7 0 AHCAL8 31 32 34 31 99 15 00 00 28000 31000
9 0 AHCAL8 36 31 0  0  99 15 0  0  0     31000
7 3 AHCAL  24 30 0  0  0  15 0  0  0     0
7 4 AHCAL  1  29 0  0  0  15 0  0  0     0
7 6 AHCAL  2  28 0  0  0  15 0  0  0     0
7 7 AHCAL  30 27 23 30 99 15 00 00 28000 31000

9 1 AHCAL  29 26 26 29 99 15 00 00 28000 31000
```

```
9 2 AHCAL  28 25 10 28 99 15 00 00 28000 31000
9 3 AHCAL  27 24 38 27 99 15 00 00 28000 31000
9 4 AHCAL  26 23 22 26 99 15 00 00 28000 31000
9 6 AHCAL  25 22 16 25 99 15 00 00 28000 31000
9 7 AHCAL  23 21 21 23 99 15 00 00 28000 31000

12 4 PMT 14

15 1 AHCAL 22 20 32 22 99 15 00 00 28000 31000
15 2 AHCAL 21 19 24 21 99 15 00 00 28000 31000
15 3 AHCAL 20 18 0  0  0  15 0  0  0     0
15 4 AHCAL 19 17 27 19 99 15 00 00 28000 31000
15 6 AHCAL 18 16 15 18 99 15 00 00 28000 31000
15 7 AHCAL 17 15 25 17 99 15 00 00 28000 31000

17 0 AHCAL 16 14 29 16 99 15 00 00 28000 31000
17 1 AHCAL 15 13  3  3 99 15 00 00 28000 31000
17 2 AHCAL 14 12  8 14 99 15 00 00 28000 31000
17 4 AHCAL 13 11  0  0  0  15 0  0  0     0
17 5 AHCAL 12 10  0  0  0  15 0  0  0     0
17 6 AHCAL 11  9  0  0  0  15 0  0  0     0
17 7 AHCAL 10  8  0  0  0  15 0  0  0     0

19 4 AHCAL  9  7  0  0  0  15 0  0  0     0
19 1 AHCAL  8  6  0  0  0  15 0  0  0     0
19 2 AHCAL  7  5  0  0  0  15 0  0  0     0
19 3 AHCAL  6  4  0  0  0  15 0  0  0     0
19 5 AHCAL  5  3  0  0  0  15 0  0  0     0
19 6 AHCAL  4  2  0  0  0  15 0  0  0     0
19 7 AHCAL  3  1  0  0  0  15 0  0  0     0

12 5 TCMT DAC_tcmt1.dat 46 32 27 10000 10000
12 6 TCMT DAC_tcmt2.dat 46 33 27 5500 5500
```

2007-06-30 16:04 Erika **new AHC.cfg**

```
5 0 AHCAL8 38 38 36 38 99 15 33 61 28000 31000
5 3 AHCAL8 37 37 40 37 99 15 35 63 28000 31000
5 4 AHCAL8 35 36 39 35 99 15 35 00 28000 31000
5 5 AHCAL8 34 35 37 34 99 15 34 00 28000 31000
5 6 AHCAL8 33 34 28 33 99 15 34 00 28000 31000
5 7 AHCAL8 32 33 35 32 99 15 35 00 28000 31000

7 0 AHCAL8 31 32 34 31 99 15 00 00 28000 31000
9 0 AHCAL8 36 31 0  0  99 15 0  0  0     31000
7 3 AHCAL  24 30 0  0  0  15 0  0  0     0
7 4 AHCAL  1  29 0  0  0  15 0  0  0     0
7 6 AHCAL  2  28 0  0  0  15 0  0  0     0
7 7 AHCAL  30 27 23 30 99 15 00 00 28000 31000

9 1 AHCAL  29 26 26 29 99 15 00 00 28000 31000
9 2 AHCAL  28 25 10 28 99 15 00 00 28000 31000
9 3 AHCAL  27 24 38 27 99 15 00 00 28000 31000
9 4 AHCAL  26 23 22 26 99 15 00 00 28000 31000
9 6 AHCAL  25 22 16 25 99 15 00 00 28000 31000
9 7 AHCAL  23 21 21 23 99 15 00 00 28000 31000

12 4 PMT 14

15 1 AHCAL 22 20 32 22 99 15 00 00 28000 31000
15 2 AHCAL 21 19 24 21 99 15 00 00 28000 31000
15 3 AHCAL 20 18 0  0  0  15 0  0  0     0
15 4 AHCAL 19 17 27 19 99 15 00 00 28000 31000
15 6 AHCAL 18 16 15 18 99 15 00 00 28000 31000
15 7 AHCAL 17 15 25 17 99 15 00 00 28000 31000

17 0 AHCAL 16 14 29 16 99 15 00 00 28000 31000
17 1 AHCAL 15 13  3  3 99 15 00 00 28000 31000
17 2 AHCAL 14 12  8 14 99 15 00 00 28000 31000
17 4 AHCAL 13 11  0  0  0  15 0  0  0     0
17 5 AHCAL 12 10  0  0  0  15 0  0  0     0
17 6 AHCAL 11  9  0  0  0  15 0  0  0     0
17 7 AHCAL 10  8  0  0  0  15 0  0  0     0

19 4 AHCAL  9  7  0  0  0  15 0  0  0     0
19 1 AHCAL  8  6  0  0  0  15 0  0  0     0
19 2 AHCAL  7  5  0  0  0  15 0  0  0     0
19 3 AHCAL  6  4  0  0  0  15 0  0  0     0
19 5 AHCAL  5  3  0  0  0  15 0  0  0     0
19 6 AHCAL  4  2  0  0  0  15 0  0  0     0
19 7 AHCAL  3  1  0  0  0  15 0  0  0     0

12 5 TCMT DAC_tcmt1.dat 46 32 27 10000 10000
12 6 TCMT DAC_tcmt2.dat 46 33 27 5500 5500
```

2007-06-30 16:06 Erika

```
all runs not mentioned are garbage!
```

350027	ahcPmNoise	-e 10000
350028	ahcPmNoise	-e 10000
350029	ahcCmNoise	-e 10000
350032	ahcCmNoise	

2007-06-30 18:15 Shift crews **hold scan**

330014	BeamHoldScan	10x10	muon	combined run			

2007-06-30 18:25 Shift crews **hold scan**

330015	BeamHoldScan	10cmX10cm	muon	combined			

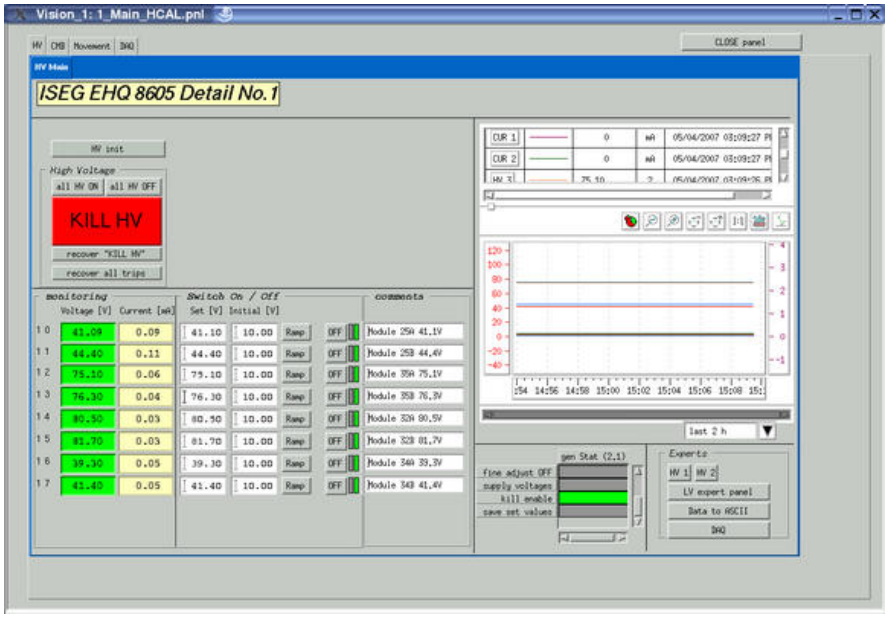
2007-05-02 15:17	Sebastian Schaetzel	**Modules 27,29,31 deinstalled**

2007-05-04 14:37	Sebastian Schaetzel	**target scan with John Maidment**

best rate at target position +4.3mm

2007-05-04 15:00	Riccardo Fabbri	**Modules 25,32,34,35 in Testbeam**

FE	Module	hold (ticks)
1	25	18
2	35	17
3	32	17
4	34	25



File: http://ttfinfo.desy.de/CALICEelog/data/2007/18/04.05/2007-05-04T15:00:28-00.png

2007-05-04 15:22	Riccardo Fabbri	**MIP calibration modules 25,32,34,35**

202421	ahcBeamStageScan	-v 26	e- 3 GeV

1000 pedestal events + 50000 events per position (no LEDs connected)
cfg/StagePositions.dat

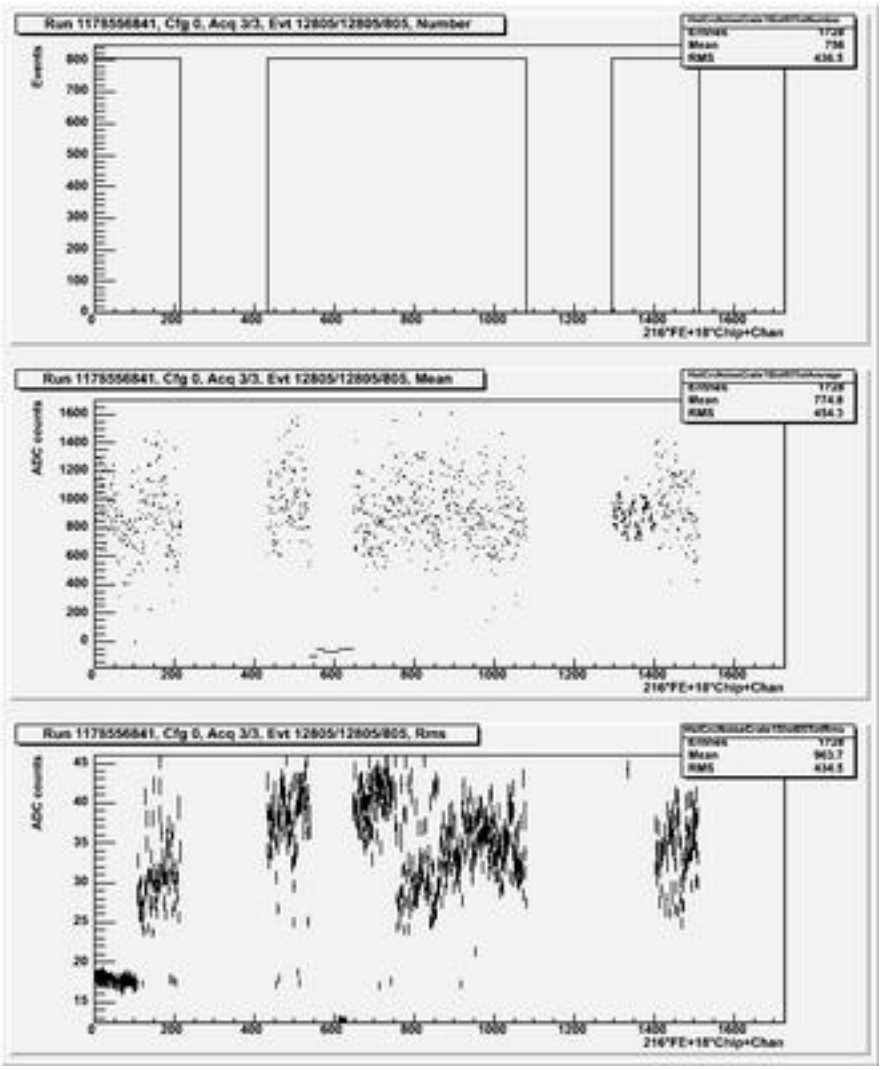
stopped while scanning position x=-240, y=180 for the second time

2007-05-05 17:21	Beni	**switched off test-beam**

Seems, somebody (Sebastian?) decided that we have enough data in the last run. DAQ was off and MKR had switched off our testbeam, after they received a call from one of us.

Therefore, I closed the beam-shutter and switched off the magnet to save power.

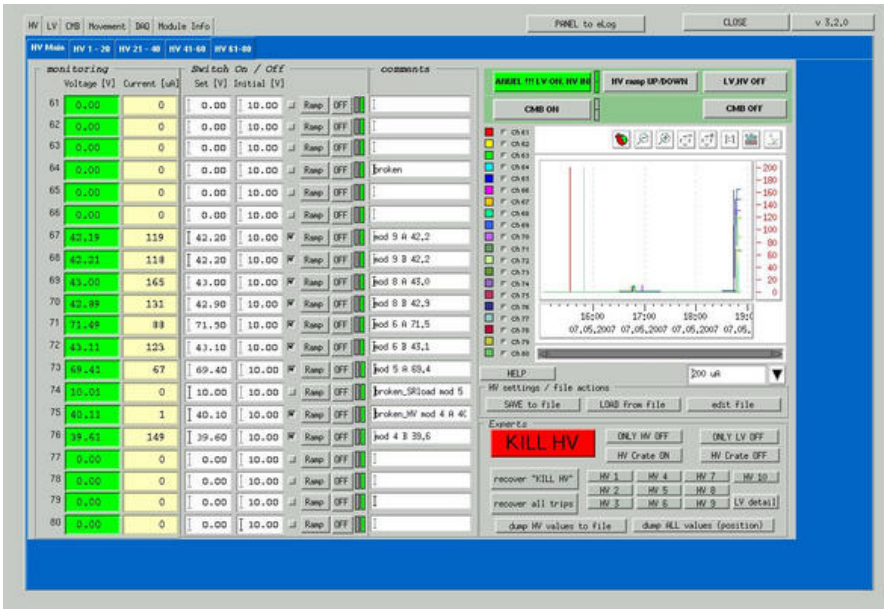
2007-05-07 18:51	Beni, Sebastian	**1st switch-on**



File: http://ttfinfo.desy.de/CALICEelog/data/2007/19/07.05/2007-05-07T18:51:07-00.gif

2007-05-07 18:53 **1st switch on**

currents of the first set of modules



File: http://ttfinfo.desy.de/CALICEelog/data/2007/19/07.05/2007-05-07T18:53:01-00.jpg

2007-05-11 15:26 Sebastian Schaetzel **Slot 5 FE2B no readback**

```
 CrcLocationData::print()
  CrcLocation::print()
   Crate number     =  172 = 0xac
   Slot number      =    5
   CRC Component    =    2 = FE2
   Label            =    2 = 0x02 = 0b00000010 = read
  AhcVfeStartUpData::print()
   Verification data =       21845 = 0x00005555 = 0b00000000 00000000 01010101 01010101
   HAB  0 DACs =  199 179 194 194 199 179  30  46  51  30  46  35  20  20  51  30  46  25
   HAB  1 DACs =   51  25  51  46  40  46  30  35  46  51 199 199  56  15  20  20  40  51
   HAB  2 DACs =   25  51  40  30  46  81 107 143 174  61 128 163 138 138 122  15  46  35
   HAB  3 DACs =  143 158 122 112 138  61  87 117 148 128  56  20  30 138 117 117 133 138
   HAB  4 DACs =  117 112  66 102  61  76 179  46  20  35  87  61  76  97  76  97  66  61
   HAB  5 DACs =   71  71  20  46  35  87  61  71  71  61 122 102 148 138 168  40  35  56
   HAB  6 DACs =    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
   HAB  7 DACs =    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
   HAB  8 DACs =    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
   HAB  9 DACs =    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
   HAB 10 DACs =    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
   HAB 11 DACs =    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0


FE2B is connected with module 5B which is cabled to channel 74 in the SlowControl HV panel.
```

2007-05-11 15:57 Sebastian Schaetzel **RMS=mean**

```
slot 5 fe 0 is module 4
module 4A power seems broken (no current shown in the SC HV panel)

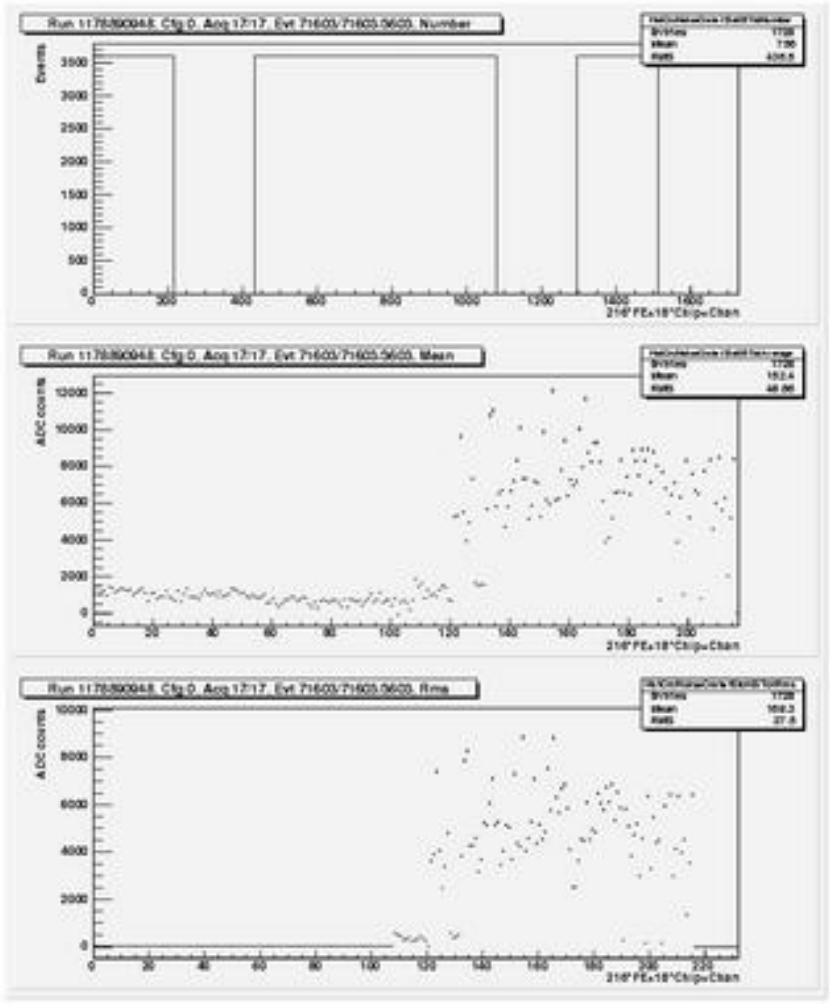
module 4B is powered and CMB4 is connected (CAN address 4, appears at position 25 in SC CMB panel)

CMB parameters: width=115 DAC (at CERN06 this corresponded to 10ns), amplitude=115 DAC

Current in 4B at nominal HV is 231 muA. LEDs on or off makes no difference.

Run ahcPmLed:
See the attached plot for the amplitudes. Strange that the RMS is about the size of the
mean value. Online histogram obtained with
hstDisplay -c 172 -s 5 -w 1 HstCrcNoise

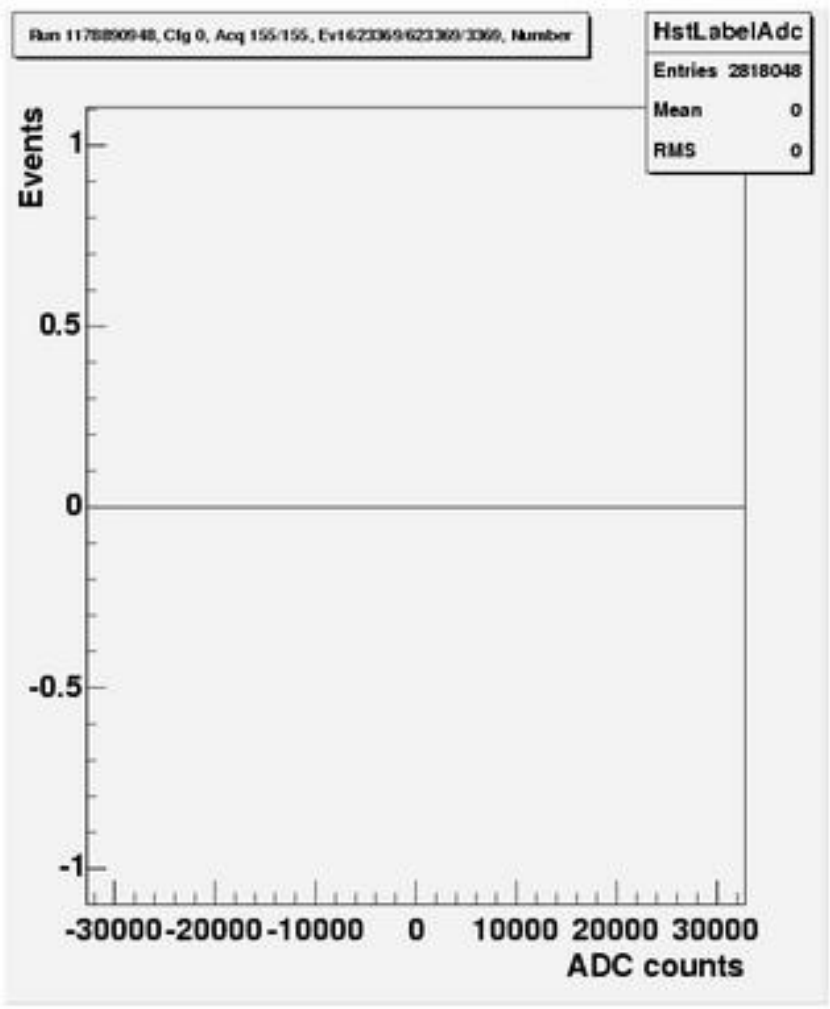
I wanted to look at the spectra of individual channels but
hstDisplay -c 172 -s 5 -f 0 -p 11 -n 17 HstCrcChannel
produces empty histograms (see next elog entry)
```



File: http://ttfinfo.desy.de/CALICEelog/data/2007/19/11.05/2007-05-11T15:57:03-00.ps

2007-05-11 16:08	Sebastian Schaetzel	**empty online histogram HstCrcChannel**

```
hstDisplay -c 172 -s 5 -f 0 -p 11 -n 17 HstCrcChannel
```

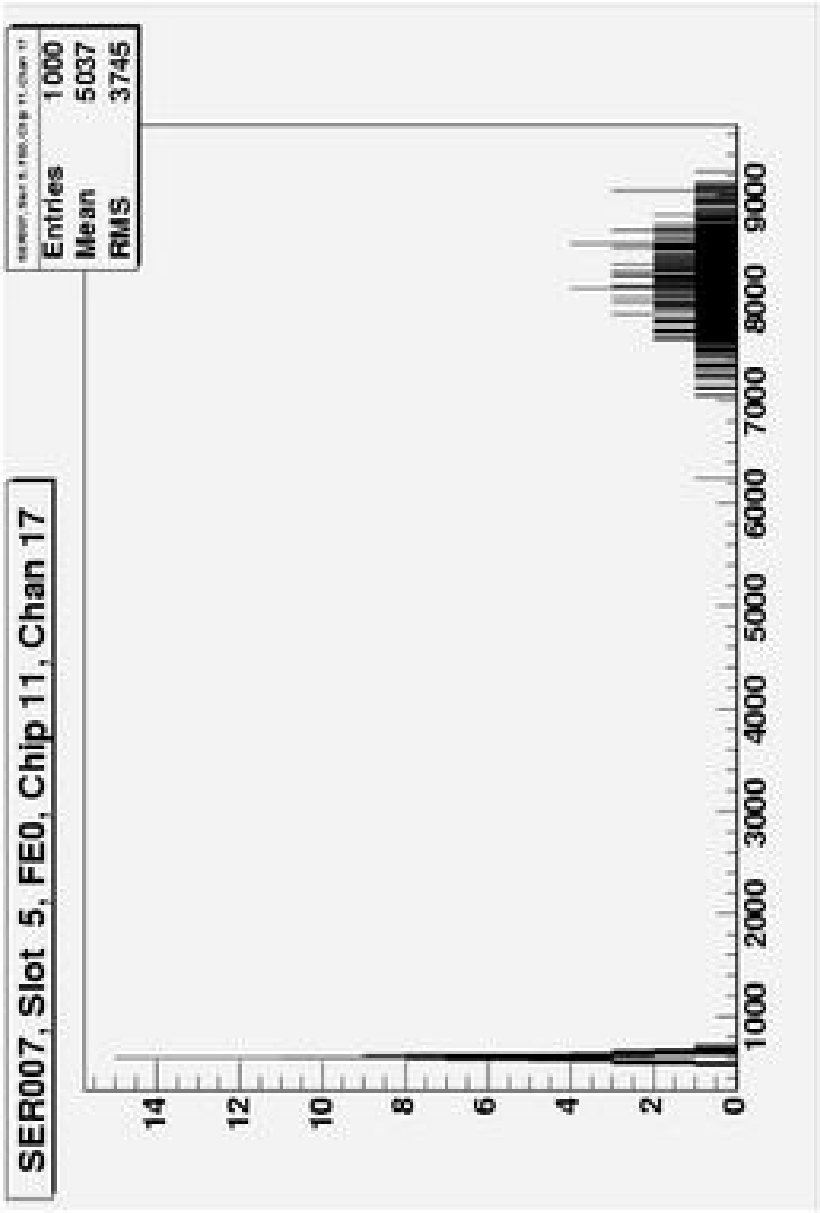


File: http://ttfinfo.desy.de/CALICEelog/data/2007/19/11.05/2007-05-11T16:08:02-00.ps

2007-05-11 16:16	Sebastian Schaetzel	**pedestal events + LED events**

```
this is an offline histogram (ahcBinHst)
huge RMS is a result of sampling of pedestal events together with LED events

run type is ahcPmLed
Is that meant to include pedestals?
```



File: http://ttfinfo.desy.de/CALICEelog/data/2007/19/11.05/2007-05-11T16:16:01-00.ps

2007-05-14 09:21	Sebastian Schaetzel	**high currents in modules**	

```
LED holes are closed with tape
Module 4 has CMB attached (cover closed)
```



File: http://ttfinfo.desy.de/CALICEelog/data/2007/20/14.05/2007-05-14T09:21:42-03.png

2007-05-14 10:01 Sebastian Schaetzel **30 HCAL modules in stack**

10 more modules are in the stack for a total of 30. Thanks to Uwe, Gert and colleagues.

Stack position	Module	CMB
38	4	4
37	5	1
36	6	7
35	8	11
34	9	14
33	11	
32	12	
31	13	
30	14	
29	15	
28	17	
27	18	
26	19	
25	20	
24	21	
23	22	
22	no label	
21	16	
20	7	
19	35	
18	25	
17	34	
16	32	
15	30	
14	28	
13	26	
12	29	
11	31	
10	27	
9		
8		
7		
6		
5		
4		
3		
2		
1	3	

2007-05-15 08:32 Sebastian Schaetzel **DAC loading broken**

We have a clear show-stopper here. All LED work is delayed until the system is working.

read-back of DAC values loaded at startUp

slot 5, FE0 as an example:

```
    Slot number      =    5
    CRC Component    =    0 = FE0
    Label            =    1 = 0x01 = 0b00000001 = write
   AhcVfeStartUpData::print()
    Verification data =  2863289685 = 0xaaaa5555 = 0b10101010 10101010 01010101 01010101
    HAB  0 DACs =   61  56  61  56  61  56  30  15  30  25  30  30  30  25  40  35  35  20
    HAB  1 DACs =   35  25  35  25  35  30  30  20  35  20  61  56  30  40  35  35  20  20
    HAB  2 DACs =   35  30  30  35  40  40  46  40  46  51  40  40  46  46  51  35  35  35
    HAB  3 DACs =   56  46  40  51  51  51  46  51  40  40  35  30  30  61  56  40  56  51
    HAB  4 DACs =   46  51  40  56  46  46  61  15  20  30  56  46  46  46  40  51  51  56
    HAB  5 DACs =   56  46  30  25  25  46  51  46  51  51  51  46  56  51  46  20  25  25
    HAB  6 DACs =   46  51  46  40  46  51  46  40  46  46  56  61  61  40  51  40  51  51
    HAB  7 DACs =   51  46  51  51  51  40  40  61  15  66  51  46  51  46  51  51  51  51
    HAB  8 DACs =   51  51  81 102  76  46  51  51  46  40  51  40  51  46  46 133  97 122
    HAB  9 DACs =   51  40  46  46  46  46  51  51  51  46  61  51  56  40  40  66  71  87
    HAB 10 DACs =  102 102 107 117 107 112 102  87  71  66 133 133 122 127  56  97 102  56
    HAB 11 DACs =   61  40  56  61  56  61  56 107  61  71  51  15 163  40  40 255  40  40


   Slot number      =    5
   CRC Component    =    0 = FE0
   Label            =    2 = 0x02 = 0b00000010 = read
  AhcVfeStartUpData::print()
   Verification data =       43690 = 0x0000aaaa = 0b00000000 00000000 10101010 10101010
   HAB  0 DACs =   61  40  56  61  56  61  56 107  61  71  51  15 163  40  40 255  40  40
   HAB  1 DACs =  102 102 107 117 107 112 102  87  71  66 133 133 122 127  56  97 102  56
   HAB  2 DACs =   51  40  46  46  46  46  51  51  51  46  61  51  56  40  40  66  71  87
   HAB  3 DACs =   51  51  81 102  76  46  51  51  46  40  51  40  51  46  46 133  97 122
   HAB  4 DACs =   51  46  51  51  51  40  40  61  15  66  51  46  51  46  51  51  51  51
   HAB  5 DACs =   46  51  46  40  46  51  46  40  46  46  56  61  61  40  51  40  51  51
   HAB  6 DACs =    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
   HAB  7 DACs =    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
   HAB  8 DACs =    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
   HAB  9 DACs =    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
   HAB 10 DACs =    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
   HAB 11 DACs =    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
```

==> values loaded as HAB 11 are read-back as values for HAB 0, ...,
    HAB 6 is read-back as HAB 5. Calling this "scrambled numbers" in the table below.

A different problem with FE6: values are read-back seemingly for the correct HAB but the DAC values
 have changed! Example HAB 9: written 40; read-back: 32.

DAQ feature request: automatic comparison of written and read values and a clear error message when
 the two are different.

```
    Slot number      =    5
    CRC Component    =    6 = FE6
    Label            =    1 = 0x01 = 0b00000001 = write
   AhcVfeStartUpData::print()
    Verification data =  2863289685 = 0xaaaa5555 = 0b10101010 10101010 01010101 01010101
    HAB  0 DACs =  138 138 138 143 138 138 128 122 133 117 133 128 128 133 133 133 122 128
    HAB  1 DACs =  122 122 128 128 128 133 133 128 133 128  40  15 122 133 128 133 122 128
    HAB  2 DACs =  138 117 117 122 133 117 117 107 117 117 112 107 107 107 112 122  51  51
    HAB  3 DACs =  107 117 112 107 107 117 107 112 112 112  46  66  92  25 107 107 112 117
    HAB  4 DACs =  133 148 153 122 117 163  30  81  51  76 122 133 112 117 122 122 153 117
    HAB  5 DACs =  112 168  56  97  51 138 138 143 168 153 163 128 117 117 143  92  76  87
    HAB  6 DACs =  133 148 128 117 128 122 128 117 112 122  61  71  71  20 133 133 133 143
    HAB  7 DACs =  133 128 117 143 117 122  46  92  71  61 138 128 122 112 107 112 112 107
    HAB  8 DACs =  112 112  92  97  81 107 102 107 107 112 107 107 112 112 112  66  46  51
    HAB  9 DACs =  112 112 107 117 117 112 107 107 112 107  46  97  76  25  40  40  46  46
    HAB 10 DACs =   76 112 107  87 102  46  97  51  61  46  66 107  81  87  51  87 107 133
    HAB 11 DACs =  128  25 117 117 128 128 138 122 133 122 122 122 153  15 138 143 138 122

   Slot number      =    5
   CRC Component    =    6 = FE6
   Label            =    2 = 0x02 = 0b00000010 = read
  AhcVfeStartUpData::print()
   Verification data =  2863333375 = 0xaaaaffff = 0b10101010 10101010 11111111 11111111
   HAB  0 DACs =  138 155 255 255 138 138 138 122 133 127 255 250 153 143 143 143 250 250
   HAB  1 DACs =  126 122 235 215 230 175 229 179 189 174 106 111 123 215 179 215 123 133
   HAB  2 DACs =  250 117 127 127 245 117 127 107 117 127 126 107 111 123 120 122  63  63
   HAB  3 DACs =  123 117  92 107 123 127 111 123 123 112 111 107 124 121 123 107 126 119
   HAB  4 DACs =  133 148 253 255 117 251  62  93 119 125 250 133 122 117 123 122 249 127
   HAB  5 DACs =  229 188 184 117 179 250 138 255 248 251 191  71 119 117 143 221 205 223
   HAB  6 DACs =  133 148 128 117 128 122 128 117 112 122  61  71  71  20 133 133 133 143
   HAB  7 DACs =  133 128 117 143 117 122  46  92  71  61 138 128 122 112 107 112 112 107
   HAB  8 DACs =  112 112  92  97  81 107 102 107  99 112 107 107 112 112 112  66  46  51
   HAB  9 DACs =  112 112 107 117 117 112 107 107 112 107  46  97  76  25  40  32  46  46
   HAB 10 DACs =   76 112 107  87 102  46  97  51  61  42  66 107  81  87  51  87 107 129
   HAB 11 DACs =  128  25 117 117 128 128 138 122 133 122 122 122 153  15 138 143 138 122
```

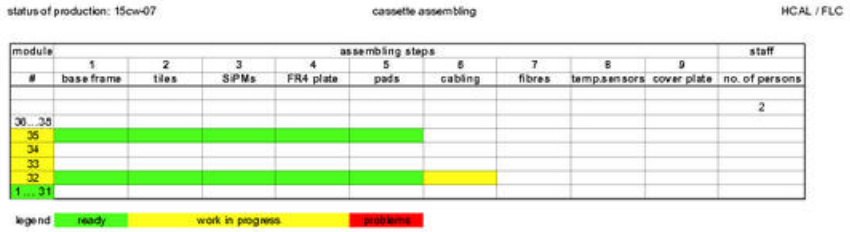
FE	status
0A	scrambled numbers
0B	all zeros
2A	all zeros
2B	all zeros
3A	scrambled numbers
3B	all zeros
4A	scrambled numbers
4B	all zeros
6A	wrong values
6B	wrong values

2007-04-12 09:31 Doerte David **assembling status**

The tiles for the last modules 37 + 38 are on the way to DESY.
Tiles for the other modules 33, 34 and 36 are ready to be tested at DESY.

In the assembling of the cassettes we have a problem. The type of the micro coax cable from CERN which we use for the SiPM signals was changed. Now it is difficult to adjust the stripping machine for the new cable. One reason is that we still do not have a data sheet at the moment. Therefore we cannot finish the modules but we prepare them till the step of cabling.

cassettes work in progress: 35
32
cassettes ready: 1 - 31


status of production: 15cw-07 cassette assembling HCAL / FLC

module	assembling steps									staff
	1	2	3	4	5	6	7	8	9	
#	base frame	tiles	SiPMs	FR4 plate	pads	cabling	fibres	temp.sensors	cover plate	no. of persons
										2
30...35										
35										
34										
33										
32										
1...31										

legend ready work in progress problems

status-15cw07.xls 1 / 1 D. David, F1, 12.04.07

File: http://ttfinfo.desy.de/CALICEelog/data/2007/15/12.04/2007-04-12T09:31:48-00.pdf

2007-04-12 12:01 Doerte David

The tiles for the last modules are already at DESY.

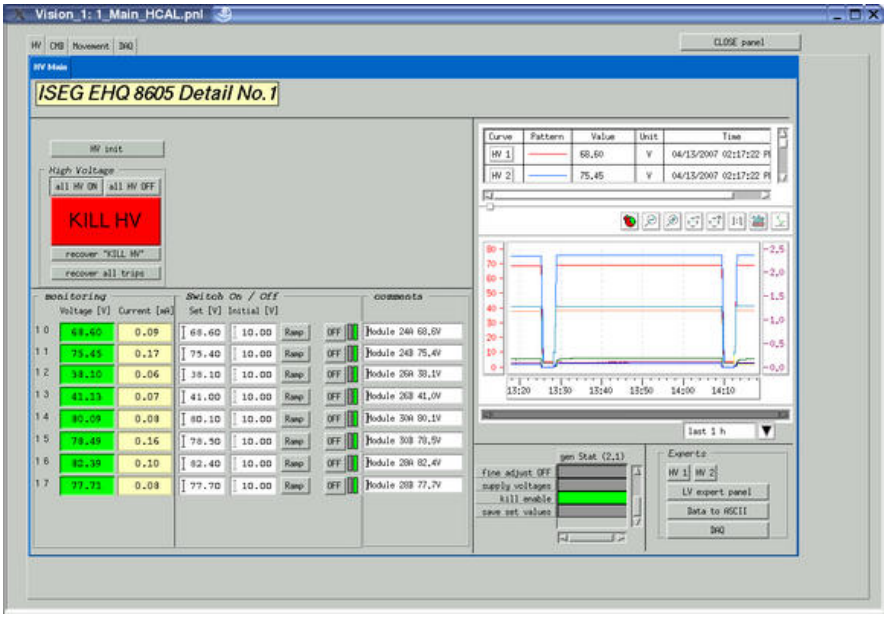
2007-04-12 16:19 Sebastian Schaetzel **Modules 24,26,28,30 installed**

Module	FE	hold (ticks)
24	1	18
26	2	18
30	3	20
28	4	18

Trigger: 3x3cm2 new from Petr Smirnov
HV: CAEN channels 20 and 21=3000V each (PMT voltage is 1500V)
LVDS lines 10 and 11 on VME backplane, use -v 26 for coincidence
(there is no hardware (NIM) coincidence)

hold from run 202364 (ahcBeamHoldScan -v 26)

Voltages and currents as of 13 April 2007, 13h30 using
DACvalue_mod24_A68.4_B75.2.txt
DACvalue_mod26_A37.9_B40.8.txt
DACvalue_mod28_A82.2_B77.5.txt
DACvalue_mod30_A79.9_B78.3.txt



File: http://ttfinfo.desy.de/CALICEelog/data/2007/15/12.04/2007-04-12T16:19:33-04.png

2007-04-13 14:30	Sebastian Schaetzel	**MIP calibration**	
202365	ahcBeamStageScan -v 26	3x3cm2	3 GeV e+

50000 events per positions

run stopped at position x=105,y=-15 on Saturday, 14 April at 12h40
beam was gone, shutter closed (presumably around 23h48 when Linac failed,
Linac-Freigabe gone?)

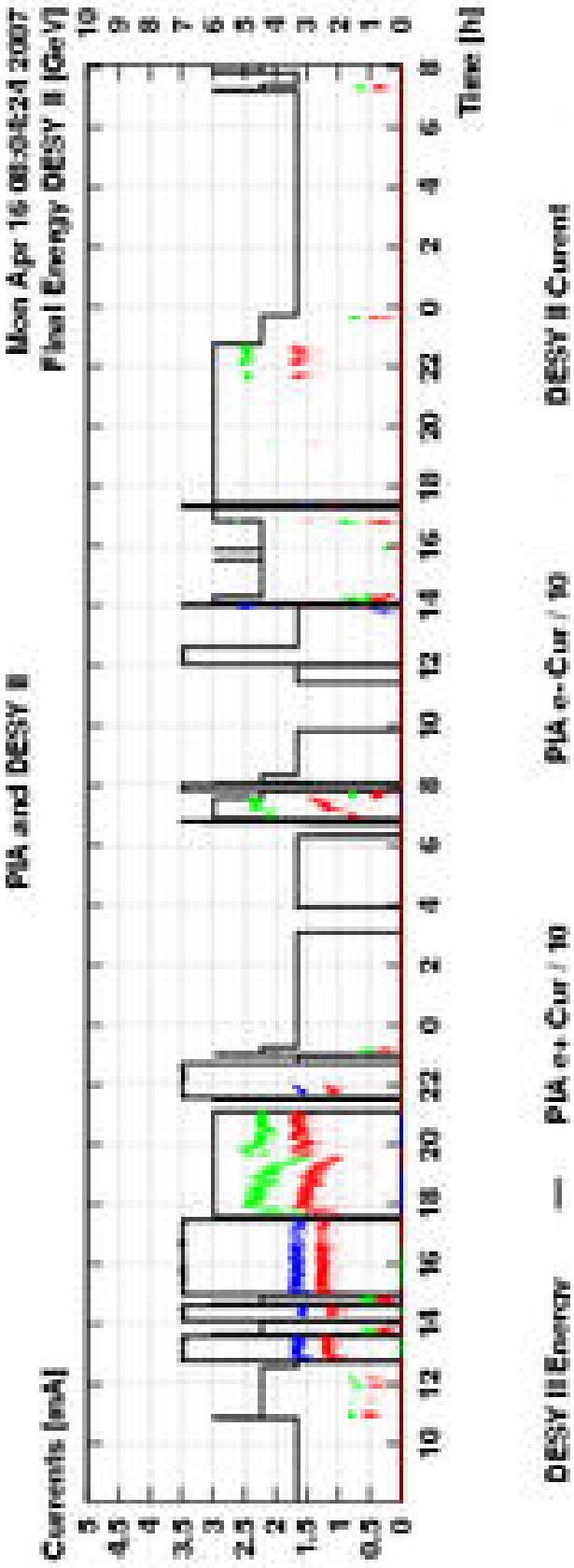
cfg/StagePositions.dat (=3 rounds of 216 positions)

no LED light, CMBs off

2007-04-14 13:09	Sebastian Schaetzel	**MIP calibration modules 24,26,28,30 (cont'd)**	
202366	ahcBeamStageScan -v 26	3x3cm2	3 GeV e

like 202365 but with cfg/StagePositions202366.dat

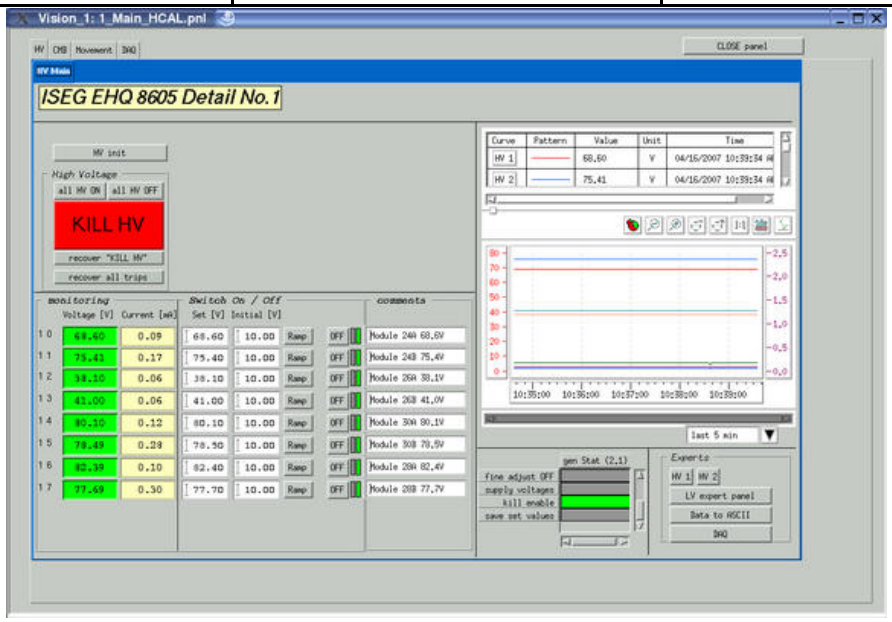
EDIT: beam gone in night to Sunday (machine problems, Linac and DESY 2);
run stopped on Monday, 16 April at 8h00 at position -240;-120 (only 64 positions scanned)


Mon Apr 16 08:04:24 2007
Final Energy DESY II [GeV]
PIA and DESY II
Currents [mA]
Time [h]
DESY II Energy
PIA e+ Cur / 10
PIA e- Cur / 10
DESY II Current

File: http://ttfinfo.desy.de/CALICEelog/data/2007/15/13.04/2007-04-16T08:09:44-02.ps

2007-04-16 10:35 Sebastian Schaetzel **increased current in module 28B and 30B**

module	current (mA) 13 April	current (mA) 16 April
28B	0.08	0.30
30B	0.16	0.28



File: http://ttfinfo.desy.de/CALICEelog/data/2007/16/16.04/2007-04-16T10:35:15-00.png

2007-04-16 10:47 Sebastian Schaetzel **MIP calibration modules 24,26,28,30 (cont'd)**

2007-04-16 12:12 Sebastian Schaetzel **MIP calibration modules 24,26,28,30 (cont'd)**

202368	ahcBeamStageScan -v 26	3x3cm2	3 GeV e

like 202365 but with cfg/StagePositions202368.dat

stopped at position 120,-240; disk full

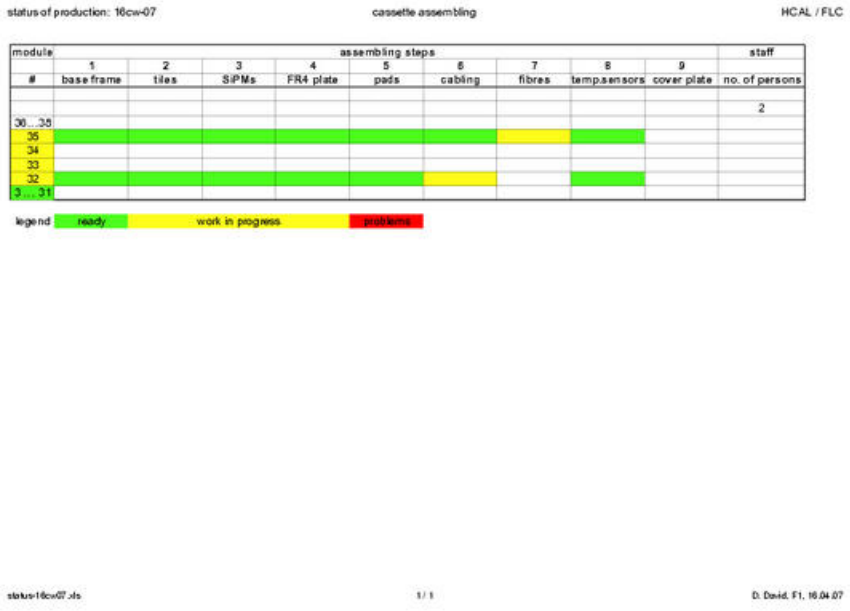
2007-04-16 13:17 Doerte David **assembling status**

Tiles for module 33 are tested but there are not enough good SiPMs for that module. Therefore the tiles for the next module are now being tested.

The problems with the new type of cable and the stripping machine were solved on Friday. We put in new knifes, a new spring and wrote a new program. Assembling could continue again.

Meanwhile we started to disassemble cassettes # 1 and 2. All tiles with their current and in many cases bad SiPMs will be shipped to Moscow where the colleagues will assort tiles with in many cases new SiPMs for new modules # 1 and 2. Later we will reassemble the first cassettes at DESY.

cassettes work in progress: 35
32
cassettes ready: 3 - 31


status of production: 16cw-07 cassette assembling HCAL / FLC

module	assembling steps									staff
	1	2	3	4	5	6	7	8	9	
#	base frame	tiles	SiPMs	FR4 plate	pads	cabling	fibres	temp.sensors	cover plate	no. of persons
										2
36...35										
35										
34										
33										
32										
3....31										

legend: ready | work in progress | problems

status-16cw07.xls 1 / 1 D. David, F1, 16.04.07

File: http://ttfinfo.desy.de/CALICEelog/data/2007/16/16.04/2007-04-16T13:17:42-00.pdf

2007-04-16 15:12	Sebastian Schaetzel	**MIP calibration modules 24,26,28,30 (cont'd)**	
202369	ahcBeamStageScan -v 26	3x3cm2	3 GeV e

like 202365 but with cfg/StagePositions202369.dat

2007-04-17 18:57	Beni	**dead cells check**
202370		ahcCmNoise
202371		ahcPmNoise

module 24

found dead channel: FE 1 chip 0 chan 5 hist (PM only)
found dead channel: FE 1 chip 5 chan 17 hist
found dead channel: FE 1 chip 8 chan 5 hist
found dead channel: FE 1 chip 8 chan 12 hist
found dead channel: FE 1 chip 9 chan 0 hist
found dead channel: FE 1 chip 9 chan 3 hist
found dead channel: FE 1 chip 9 chan 5 hist
found dead channel: FE 1 chip 10 chan 1 hist
found dead channel: FE 1 chip 11 chan 6 hist

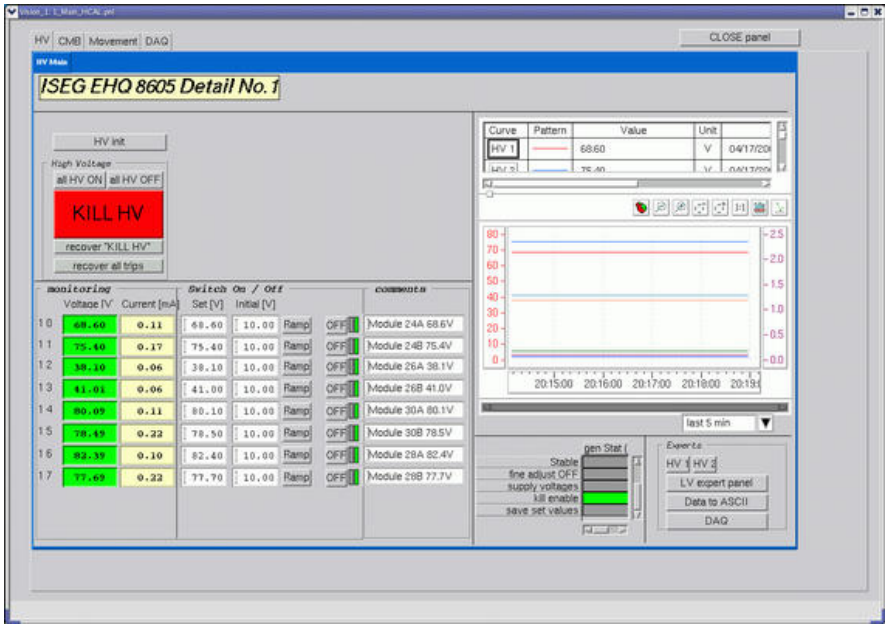
module 26

found dead channel: FE 2 chip 6 chan 9 hist (PM only)

module 28

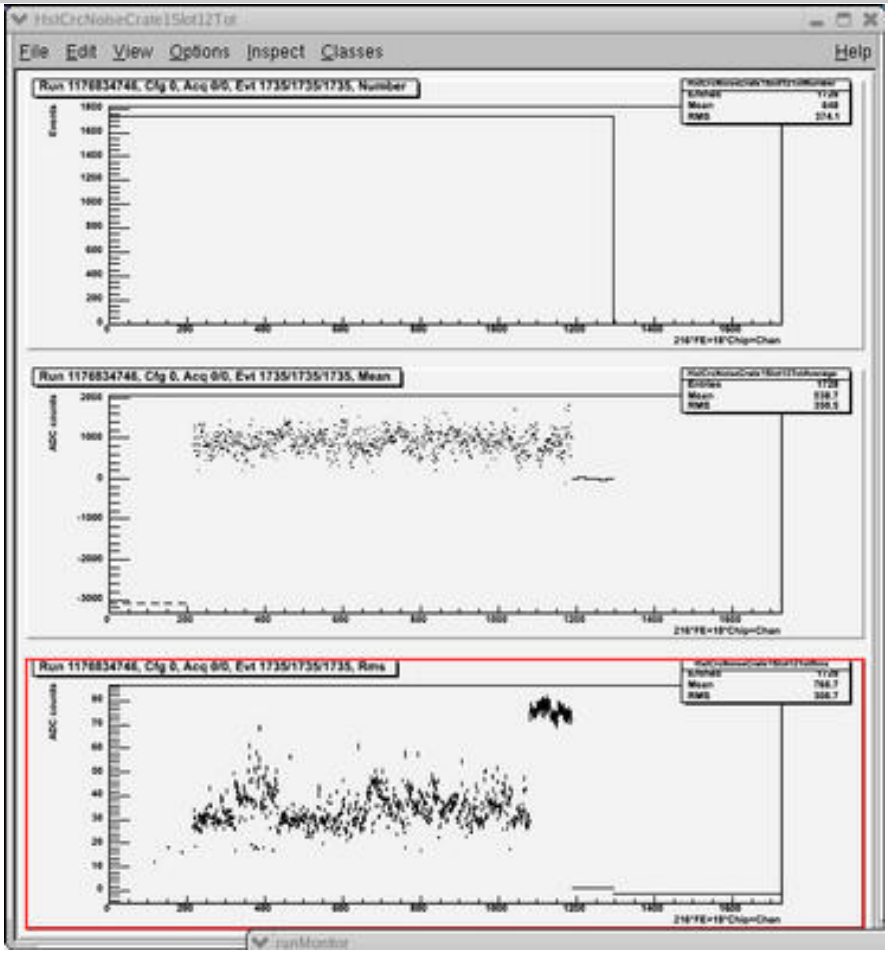
found dead channel: FE 4 chip 9 chan 2 hist

2007-04-17 20:16	>	**current development**



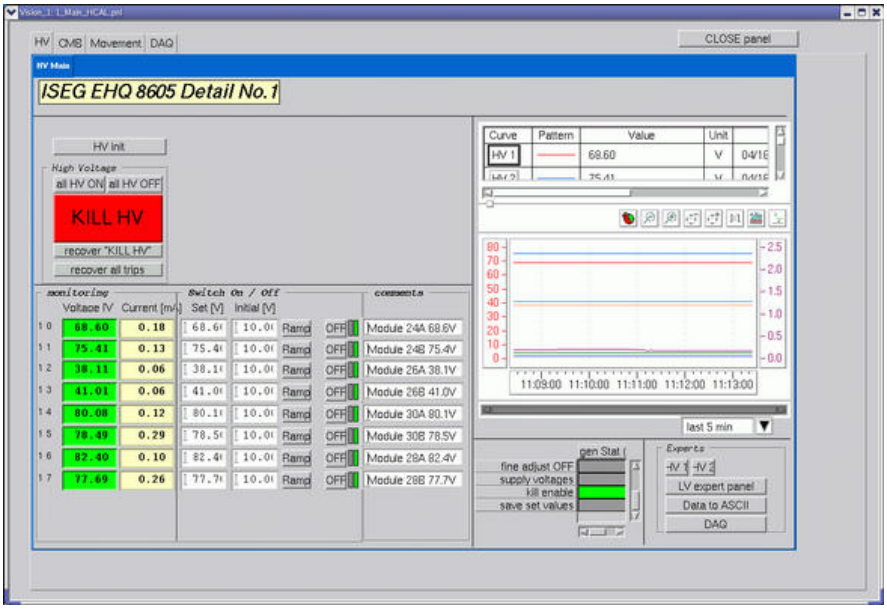
File: http://ttfinfo.desy.de/CALICEelog/data/2007/16/17.04/2007-04-17T20:16:02-00.gif

2007-04-17 20:34 > **noise looks correct**



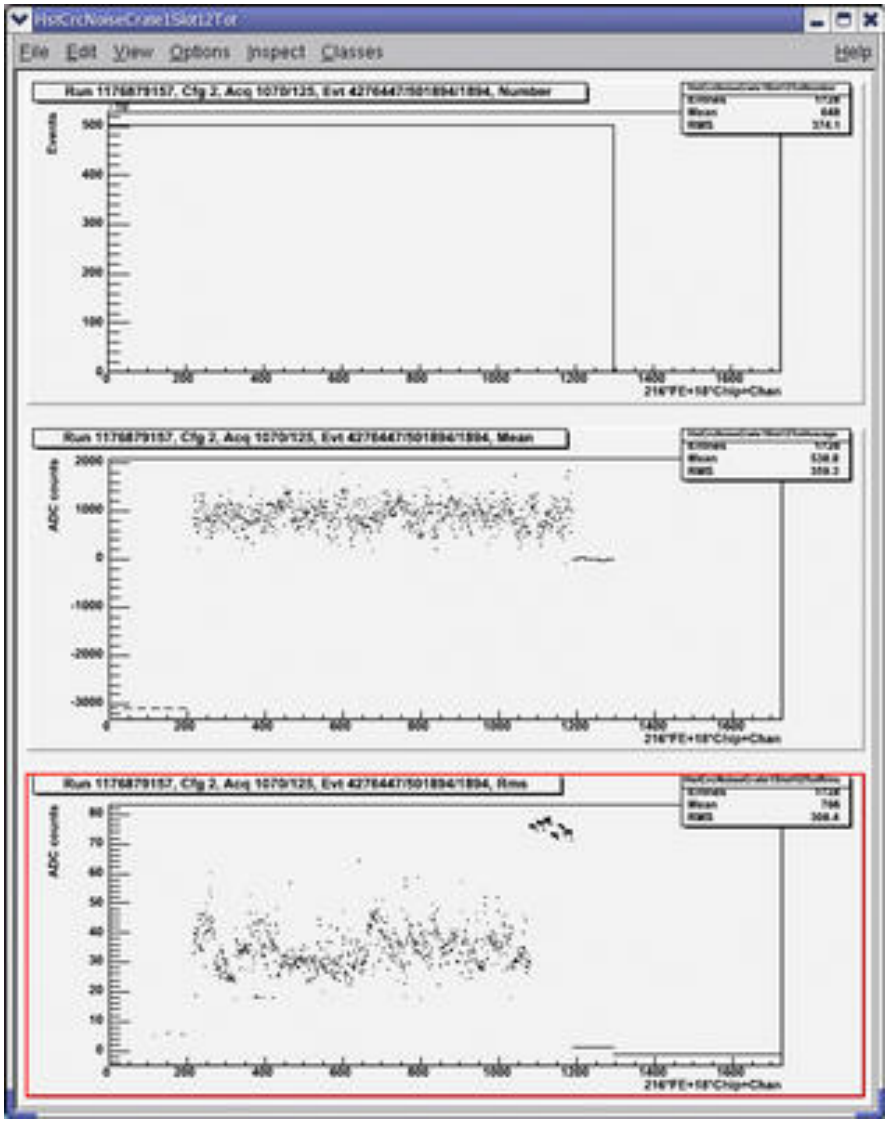
File: http://ttfinfo.desy.de/CALICEelog/data/2007/16/17.04/2007-04-17T20:34:02-00.gif

2007-04-18 11:10 **current development**



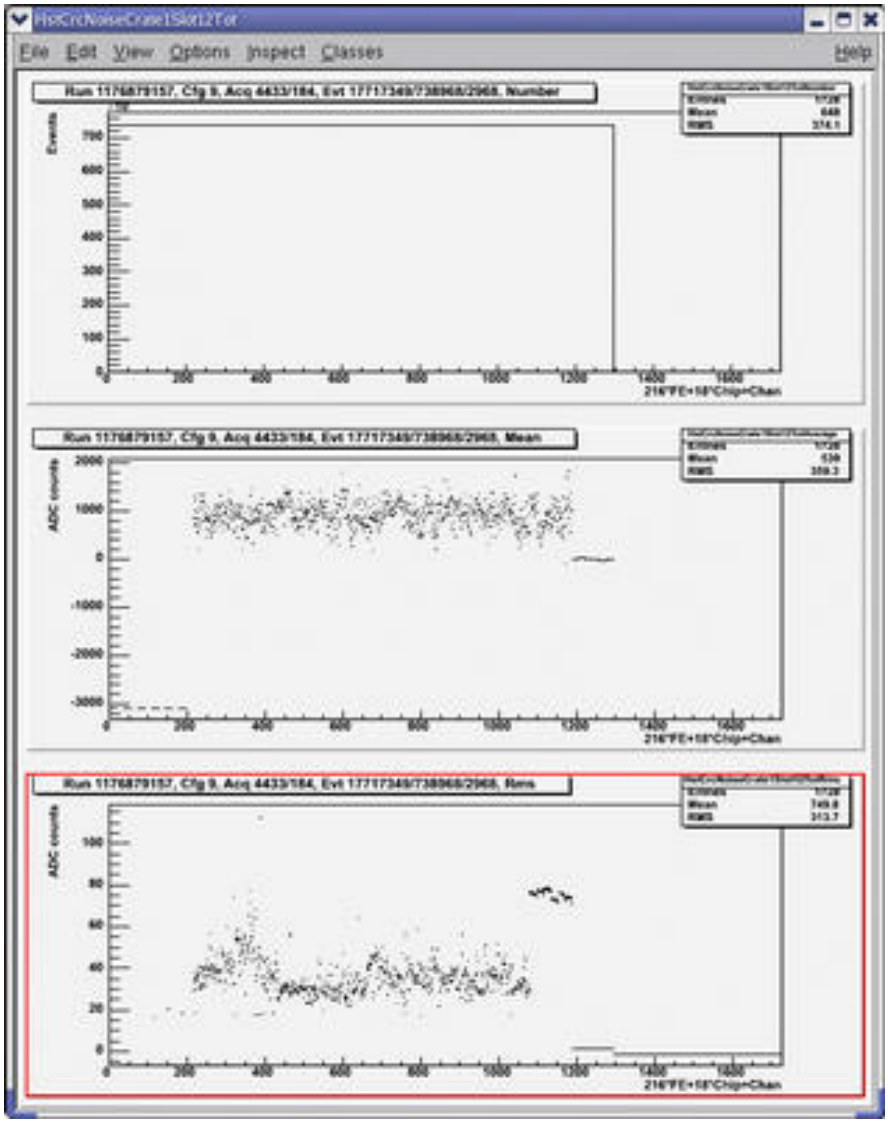
File: http://ttfinfo.desy.de/CALICEelog/data/2007/16/18.04/2007-04-18T11:10:02-00.gif

2007-04-18 11:11 **noise development**



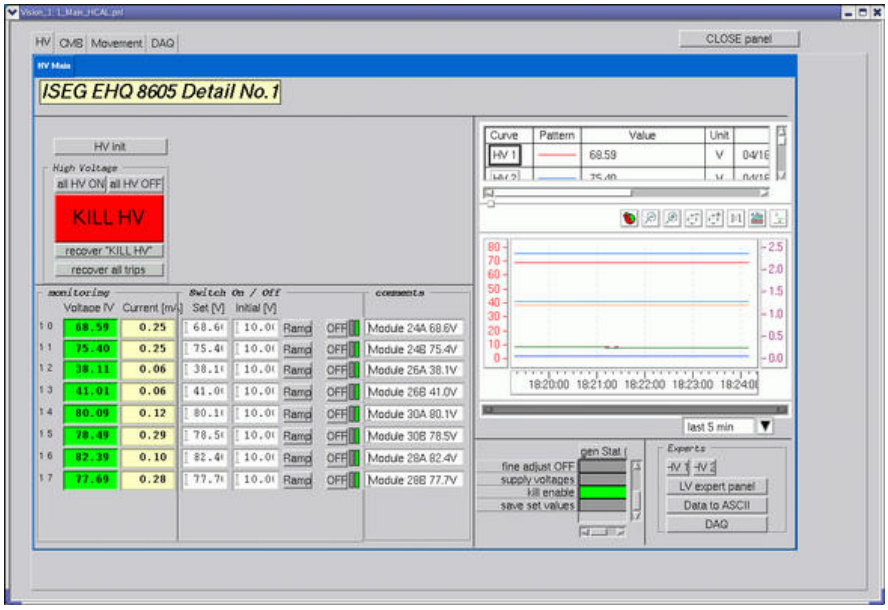
File: http://ttfinfo.desy.de/CALICEelog/data/2007/16/18.04/2007-04-18T11:11:02-00.gif

2007-04-18 18:19 **noise development**



File: http://ttfinfo.desy.de/CALICEelog/data/2007/16/18.04/2007-04-18T18:19:02-00.gif

2007-04-18 18:19 **current development**



File: http://ttfinfo.desy.de/CALICEelog/data/2007/16/18.04/2007-04-18T18:19:05-00.gif

2007-04-19 18:22 Sebastian Schaetzel **CRC SER001 FE5A is broken**

EDIT: Benjamin found on Tuesday (24.4.07) that just the SCSI cable was broken.

2007-04-20 17:03 Sebastian Schaetzel **Modules 25, 27 in DESY testbeam**

crate 1, slot 12

Module	FE	hold (ticks)
25	1	18
27	2	18

hold from runs 202391, 202392 (ahcBeamHoldScan -v 26)

Voltages and currents as of 20 April 2007, 17h using
DACvalue_mod25_A40.9_B44.2.txt
DACvalue_mod27_A68.2_B45.8.txt

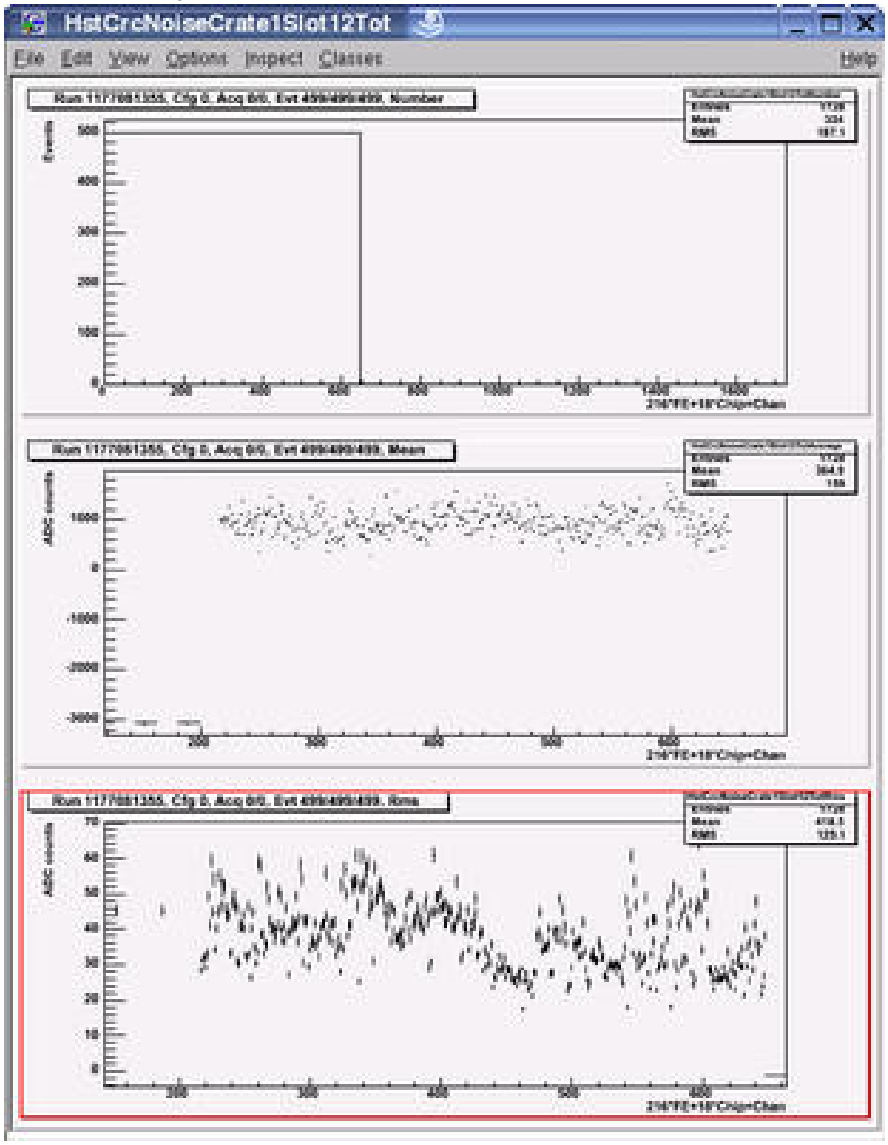
EDIT: same currents on 23 April, 8h (=> stable, no increase)



File: http://ttfinfo.desy.de/CALICEelog/data/2007/16/20.04/2007-04-20T17:03:18-01.png

2007-04-20 17:08 Sebastian Schaetzel **normal noise in 27B**

The pedestal RMS is normal (~30 ADC ch.) also for module 27B (FE2B=Channels 540-648 in online histogram)
for which the SC shows a large current of 0.5mA.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/16/20.04/2007-04-20T17:08:43-00.png

2007-04-20 17:41 Sebastian Schaetzel **MIP calibration modules 25,27**

202394	ahcBeamStageScan -v 26	3x3cm2	3 GeV e-

cfg/StagePositions.dat
50000 beam events per position (+1000 pedestal, no CMB/LEDs)

runEnd while scanning position 221 (-210,390) (all 216 positions scanned and repeating from beginning)

2007-04-21 20:37 Erika **check currents**

currents of module 25, 27 same as yeaterday:
0.09, 0.11, 0.08, 0.47

2007-04-24 17:46 Beni **FE 5,6 & 7 are working**

The problem with the PIN-readout was not related to the FEs. Most probably the SCSI cable is the source of the strange signals.

In addition the PIN-HAB was found to have some missing soldering connections.

Cable and HAB are replaced now.

	2007-04-24 17:50	Beni	**high current in module 27 B & bad baseboard module connection**

Sebastian and me tried to find the source of the high current in module 27 B.

We found a bend connecter pin on the baseboard module connection. The pin of chip 7 chan 4 was touching
the neighboring channel 5. This means, that we should see no signal for the MIP-runs
in 7:4, at least.

But this was not the reason for the high current!

The current is still 0,50mA @ operation voltage, after repairing the bend pin.

The test also showed that the current comes from the module and not from the electronics!

	2007-04-26 08:52	Doerte David	**assembling status**

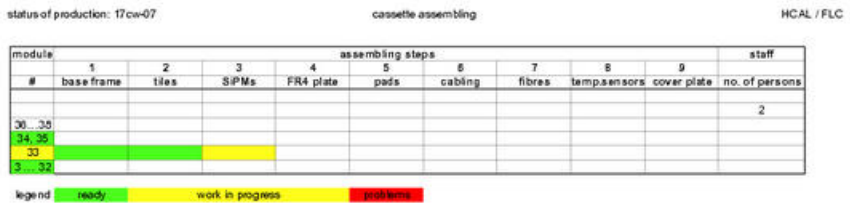
All tiles for the last cassettes are at DESY. The last tests are started. Due to a lot of not good SiPMs it was hard to find spare ones. But now we have complete lists for module 33 and 36. May be we will get some new spare later together with the SiPMs for "new" cassettes no. 1 and 2.

The stripping machine is working well again. But the workshop we share it with requires it more and more.

After a long time doing a very good job one colleague will leave us this week going back to Moscow. A new colleague from Moscow arrived already this week so he can be trained by two experienced colleagues.

The last assembled cassettes are not tested with electronic boards because the equipment is used for the tile tests.

```
cassettes ready:            34 - 35
cassettes work in progress: 33
cassettes ready:             3 - 32
cassettes disassembled:      1 -  2
```



File: http://ttfinfo.desy.de/CALICEelog/data/2007/17/26.04/2007-04-26T08:52:43-00.pdf

	2007-04-26 15:53	Sebastian Schaetzel	**modules 25,27,29,31 installed**

crate 1, slot 12

Module	FE	hold (ticks)
25	1	18
27	2	18
29	3	19

31	4	19

voltage files:
flchcaldaq01:~caliceon/cfg/ahcal/DACvalue_mod25_A40.9_B44.2.txt
DACvalue_mod27_A68.2_B45.8.txt
DACvalue_mod29_A78.8_B77.3.txt
DACvalue_mod31_A79.4_B79.5.txt

2007-04-26 22:27 Beni **module calibration**

202401	ahcBeamStageScan	26	e-	modules only (25/27/29/31)		scan	module 25A shows no current

The trigger rate is 230 Hz at the beginning of the run. This will change during HERA injection, which just started. I requested that the machine control restores the electron settings after the injection.

positions: cfg/StagePositions.dat

Run stopped while scanning position x=120, y=240 because local disk is full
Request sent to Roman to implement in copy script: test validity of dCache file after copy to dCache and removal of local file

2007-04-26 22:29 Beni **module 25 A has no current**

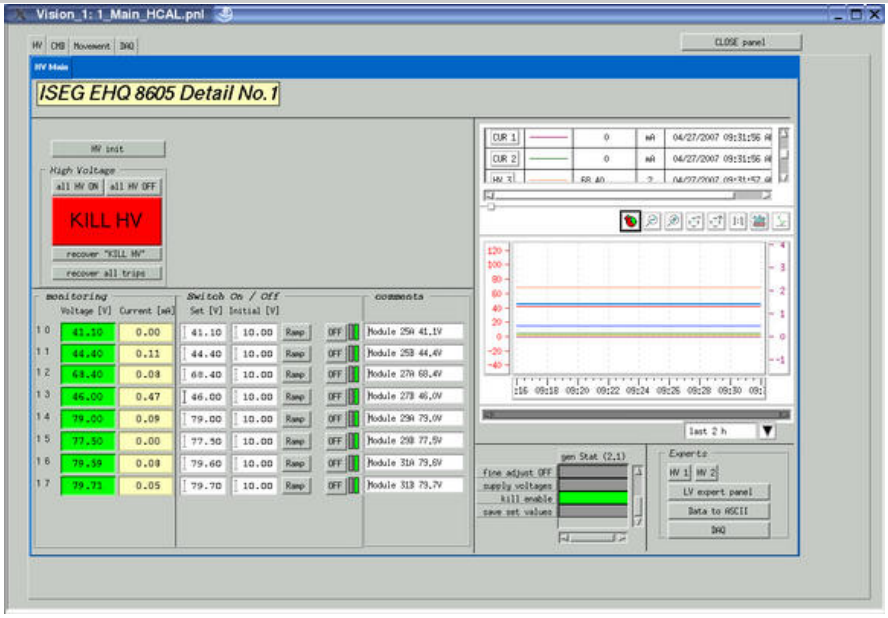
When I set up the overnight module scan, I noticed that

module 25A shows no current

The powerline seems to be ok, at least I could measure the set high voltage at the connector of the base board.

For the moment I started the scan, nevertheless. To be investigated tomorrow.

2007-04-27 09:24 Sebastian Schaetzel **no currents in Modules 25A and 29B**



File: http://ttfinfo.desy.de/CALICEelog/data/2007/17/27.04/2007-04-27T09:24:06-00.png

2007-04-27 12:05 Beni **current problem**

After disconnecting and reconnecting the relevant LV/HV cables the two module halfes 25A & 29B show a reasonable current again. These connectors do not have screws to fix. If the problems happens again, we should replace the powerlines.

2007-04-27 12:08 Beni **stage scan restarted**

202402	ahcBeamStageScan	26	e- 3 GeV	modules 25/27/29/31		scan	

I restarted the stage scan from the beginning, as the signal was gone for module half 25A.

2007-04-29 13:22 Beni **disk full again**

I just checked the status of the test-beam DAQ from remote.

The disk is full again. It looks like the copy-script is off since quite some time. Therefore, the clean script could not remove some of the older files on the local disk.

Current run 202402 stopped at configuration 516.

I will restart the copy scrip, and check back later.

2007-04-29 14:34 Beni **continued stage scan**

While the cleanup of the data is still ongoing, I continued the stage scan at position 170.

202403	ahcBeamStageScan26		electrons			scan	

positions file: StagePos_remaining_29_04_07.dat
run stopped after all positions scanned more than once

2007-03-13 00:09 Roman **Converter Script started**

Dear Colleagues,

I have restarted the converter script on ilc-log01.

The conversion has successfully started with run 400370 and is now happily
waiting for new runs. The script can be found under /scratch/convscript/ilcFileCopy.pl

To check whether the converter script is running.

a) logon to ilc-log01 (afs password)
b) ps aux | grep perl

Output should look similar to that ...

caliceon 7986 0.4 0.5 4320 2604 pts/0 S 00:07 0:02 /usr/bin/perl -w
/scratch/convscript/ilcFileCopy.pl

caliceon 9157 0.0 0.0 1616 468 pts/0 S 00:17 0:00 grep perl

Note that these files are not registered automatically to the grid and hence
end up in the desy internal dcache which should speed up the access to these
files from inside desy. I will register them later such they
will be also availble via the grid.

Runs up to Run400369 are now being processed in the grid
and should be ready by tomorrow morning.

Have fun.

Cheers,

Roman

2007-03-13 08:15 **Thanks!**

Thanks, Roman!
- Satoru

2007-03-13 08:22 S. Uozumi **LED run**

400363	LED	LED		fiber direct	2.5V		LED run for L1,L2 with calibration mode

light yield too low

2007-03-13 08:22 S. Uozumi **LED run**

400363	LED	LED		fiber direct	2.5V		LED run for L1,L2 with calibration mode

light yield too low

2007-03-13 08:23 S. Uozumi **LED run**

400364	Pedestal	Pedestal		fiber direct	2.5V		CmNoise run

2007-03-13 08:23 S. Uozumi **LED run**

400364	Pedestal	Pedestal		fiber direct	2.5V		CmNoise run

2007-03-13 08:24 S. Uozumi **LED run**

400365	LED	LED		fiber direct	2.5V		LED run for L1,L2 with calibration mode

Small amplitude LED pulse for L1

2007-03-13 08:24 S. Uozumi **LED run**

400365	LED	LED		fiber direct	2.5V		LED

							run for L1,L2 with calibration mode

large light yield for L1

2007-03-13 08:25 S. Uozumi **LED run**

400366	LED	LED		fiber direct	2.5V		LED run for L1,L2 with calibration mode

small amplitude LED pulse for L2

2007-03-13 08:25 S. Uozumi **LED run**

400366	LED	LED		fiber direct	2.5V		LED run for L1,L2 with calibration mode

small amplitude LED pulse for L2

2007-03-13 08:26 S. Uozumi **LED run**

400367	LED	LED		fiber direct	2.5V		LED run for L1,L2 with calibration mode

large LED pulse for inter-calibration

2007-03-13 08:26 S. Uozumi **LED run**

400367	LED	LED		fiber direct	2.5V		LED run for L1,L2 with calibration mode

large LED pulse for inter-calibration

2007-03-13 08:27 S. Uozumi **LED run**

400368	LED	LED		fiber direct	2.5V		LED run for L1,L2 with physics mode

same LED pulse with previous run for inter-calibration

2007-03-13 08:27 S. Uozumi **LED run**

400368	LED	LED		fiber direct	2.5V		LED run for L1,L2 with physics mode

same LED pulse with previous run for inter-calibration

2007-03-13 08:27 S. Uozumi **LED run**

400367	Pedestal	Pedestal		fiber direct	2.5V		PmNoise run

2007-03-13 08:27 S. Uozumi **LED run**

400367	Pedestal	Pedestal		fiber direct	2.5V		PmNoise run

2007-03-13 08:29 S. Uozumi **3GeV stage scan**

400370	beam	T1L	3GeV	fiber direct	2.5V	scanned	overnight scan	

with detector scan (36point) central part scan (9points) central injection(1pointx10times)

2007-03-13 08:29 S. Uozumi **3GeV stage scan**

400370	beam	T1L	3GeV	fiber direct	2.5V	scanned	overnight scan	

with detector scan (36point) central part scan (9points) central injection(1pointx10times)

2007-03-13 08:40 S. Uozumi **3GeV stage scan**

400371	beam	T1L	3GeV	fiber direct	2.5V	scanned	overnight scan	

with detector scan (36point) plus central part scan (9points) plus central injection(1pointx10times)

2007-03-13 08:40 S. Uozumi **3GeV stage scan**

400371	beam	T1L	3GeV	fiber direct	2.5V	scanned	overnight scan	

with detector scan (36point) plus central part scan (9points) plus central injection(1pointx10times)

2007-03-13 08:41 S. Uozumi **3GeV stage scan**

400372	beam	T1L	3GeV	fiber direct	2.5V	scanned	overnight scan	

with detector scan (36point) plus central part scan (9points) plus central injection(1pointx10times)

2007-03-13 08:41 S. Uozumi **3GeV stage scan**

400372	beam	T1L	3GeV	fiber direct	2.5V	scanned	overnight scan	

with detector scan (36point) plus central part scan (9points) plus central injection(1pointx10times)

2007-03-13 13:07 S. Uozumi et al.

We have no beam this morning, doing analysis and working on LED monitoring system.

2007-03-13 13:11 S. Uozumi **LED run**

400382	Pedestal	Pedestal		fiber direct	2.5V		CmNoise run

2007-03-13 13:16 S. Uozumi **LED run**

400384	Pedestal	Pedestal		fiber direct	2.5V		PmNoise run

2007-03-13 13:16 S. Uozumi **LED run**

400384	Pedestal	Pedestal		fiber direct	2.5V		PmNoise run

2007-03-13 13:17 S. Uozumi **LED run**

400385	LED	LED		fiber direct	2.5V		CmLED

2007-03-13 13:17 S. Uozumi **LED run**

400391	LED	LED		fiber direct	2.5V		CmLED with 50k events for inter-calibration

2007-03-13 13:19 S. Uozumi **LED run**

400393	LED	LED		fiber direct	2.5V		CmLED with 50k events for inter-calibration

same light yield with 400391 to check stability of the LED light pulse

2007-03-14 09:22 daniel **new calibrations in online monitoring**

i updated the calibrations in the online monitoring with values from run 400262.
(before they were a mixture of rough estimates and guesses...)

these calibrations are now applied to all of our runs >= 400000

2007-03-14 10:57 S. Uozumi **mapping for direct+fiber configuration**

Here you will find a mapping for 2nd configuration (direct+fiber):
http://azusa.shinshu-u.ac.jp/~satoru/direct_WLSF_mapping_v6.dat

2007-03-14 11:24 S. Uozumi **6GeV run (36 9 10 scan) with tungsten**

400435	beam	T1L	6GeV	fiber direct	2.5V	scanned		

2007-03-14 11:24 S. Uozumi **6GeV run (36 9 10 scan) with tungsten**

400435	beam	T1L	6GeV	fiber direct	2.5V	scanned		

2007-03-14 12:36 S. Uozumi **5GeV run (36 9 10 scan) with tungsten**

400437	beam	T1L	5GeV	fiber direct	2.5V	scanned		

2007-03-14 12:36 S. Uozumi **5GeV run (36 9 10 scan) with tungsten**

400437	beam	T1L	5GeV	fiber direct	2.5V	scanned		

2007-03-14 13:56 S. Uozumi **4GeV run (36 9 10 scan) with tungsten**

400438	beam	T1L	4GeV	fiber direct	2.5V	scanned		

2007-03-14 13:56 S. Uozumi **4GeV run (36 9 10 scan) with tungsten**

400438	beam	T1L	4GeV	fiber direct	2.5V	scanned		

2007-03-14 13:56 S. Uozumi **Run summary of 2nd round energy/position scan with fiber+direct module**

This is a run summary of 2nd round energy and position scan run with fiber+direct module
after improving the drift chamber efficiency.
All data contains data with 55 points
(36 points for center of each strip of X and Y layers + 9 points for central part scan + 1 points
 x 10 times for central injection).
1 points have 10k events of beam data and 1k events of pedestal.

1 GeV ... Run400422, Run400423
2 GeV ... Run400425, Run400426
3 GeV ... Run400427, Run400428
4 GeV ... Run400429, Run400438
5 GeV ... Run400432, Run400437
6 GeV ... Run400434, Run400435

2007-03-14 14:25 Doerte David **assembling status**

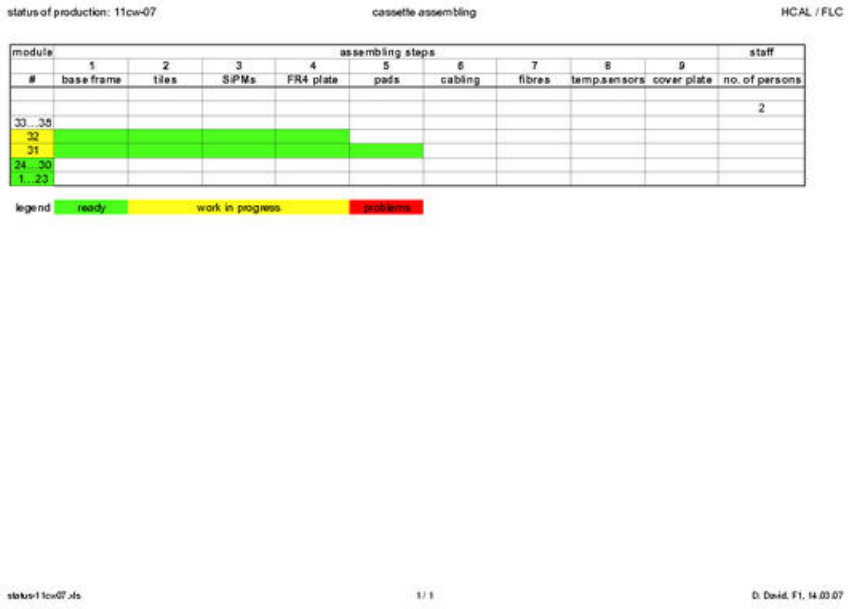
Tiles for cassettes no. 33 to 36 were advertised to be send to DESY today. Usual time for shipping
 and German custom amounts nearly 1 week. Then the tile tests at DESY will follow.

Now the change from fine to coarse structure is well done.
Due to the coarse structure without the 3x3 tiles the offset of the whole puzzle is smaller than
 before. That is good but now the produced wedges are undersized. New wedges were made.

The colleagues reprogrammed the measuring and drilling machine.

Tests for ready cassettes were started.

cassettes work in progress: 32
                            31
cassettes ready: 24 - 30
                             1 - 23


status of production: 11cw-07 cassette assembling HCAL / FLC

module	assembling steps									staff
#	1 base frame	2 tiles	3 SiPMs	4 FR4 plate	5 pads	6 cabling	7 fibres	8 temp.sensors	9 cover plate	no. of persons
										2
33...35										
32										
31										
24...30										
1...23										

legend: ready | work in progress | problems

status-11cw07.xls 1 / 1 D. David, F1, 14.03.07

File: http://ttfinfo.desy.de/CALICEelog/data/2007/11/14.03/2007-03-14T14:25:46-00.pdf

2007-03-14 16:57	S. Uozumi	**LED run**					
400440	CmLed	LED		fiber direct	2.5V		CmLed run for inter-calibration

2007-03-14 16:57	S. Uozumi	**LED run**					
400440	CmLed	LED		fiber direct	2.5V		CmLed run for inter-calibration

2007-03-14 17:01	S. Uozumi	**LED run**					
400441	PmLed	LED		fiber direct	2.5V		PmLed run for inter-calibration

2007-03-14 17:01	S. Uozumi	**LED run**					
400441	PmLed	LED		fiber direct	2.5V		PmLed run for inter-calibration

2007-03-14 17:02	S. Uozumi	**LED run**					
400442	CmNoise	Pedestal		fiber direct	2.5V		

2007-03-14 17:02	S. Uozumi	**LED run**					
400442	CmNoise	Pedestal		fiber direct	2.5V		

2007-03-14 17:02	S. Uozumi	**LED run**					
400443	PmNoise	Pedestal		fiber direct	2.5V		

2007-03-14 17:02	S. Uozumi	**LED run**					
400443	PmNoise	Pedestal		fiber direct	2.5V		

2007-03-14 17:03	S. Uozumi	**LED run**					
400445	CmLed	LED		fiber direct	2.5V		CmLed

							to see 1p.e. peak at L6S14

2007-03-14 17:03	S. Uozumi	**LED run**					
400445	CmLed	LED		fiber direct	2.5V		CmLed to see 1p.e. peak at L6S14

2007-03-14 17:04	S. Uozumi	**LED run**					
400445	CmLed	LED		fiber direct	2.5V		CmLed to see 1pe peak around L6S14

2007-03-14 17:04	S. Uozumi	**LED run**					
400445	CmLed	LED		fiber direct	2.5V		CmLed to see 1pe peak around L6S14

2007-03-14 17:05	S. Uozumi	**LED run**					
440447	CmLed	LED		fiber direct	2.5V		CmLed to see 1pe peak at L11S5

2007-03-14 17:05	S. Uozumi	**LED run**					
440447	CmLed	LED		fiber direct	2.5V		CmLed to see 1pe peak at L11S5

2007-03-14 17:05	S. Uozumi	**LED run**					
400448	CmLed	LED		fiber direct	2.5V		CmLed to see 1pe peak around L11S15

2007-03-14 17:05	S. Uozumi	**LED run**					
400448	CmLed	LED		fiber direct	2.5V		CmLed to see 1pe peak around L11S15

2007-03-14 17:06	S. Uozumi	**LED run**					
400449	CmLed	LED		fiber direct	2.5V		CmLed for inter-calibration

2007-03-14 17:06	S. Uozumi	**LED run**					
400449	CmLed	LED		fiber direct	2.5V		CmLed for inter-calibration

2007-03-14 17:17	S. Uozumi	**LED run**					
400450	PmLED	LED		fiber direct	2.5V		PmLed run for inter-calibration

2007-03-14 17:17 S. Uozumi **LED run**

400450	PmLED	LED		fiber direct	2.5V		PmLed run for inter-calibration

2007-03-14 17:17 **Run summary of LED run for Layer 6 and 11**

Run summary of LED run performed today to see gain of Layer 6 strip 14.

Pedestal runs
400442 ... CmNoise
400443 ... PmNoise

for Layer6-Strip14,
400440 ... CmLed for inter-calibration
400441 ... PmLed for inter-calibration
400445 ... CmLed to see 1pe peak
400446 ... CmLed to see 1pe peak around strip 14.

For Layer11-Strip15,
400449 ... CmLed for inter-calibration
400450 ... PmLed for inter-calibration
400447 ... CmLed to see 1pe peak
400448 ... CmLed to see 1pe peak around strip 15.

2007-03-14 17:53 S. Uozumi et al. **tungsten removed**

Now we removed the tungsten plates from the SCECAL and take another calibration run, followed by precise position scan with the MIP.

2007-03-14 17:55 S. Uozumi **calibration run without tungsten**

400451	MIP calibration	T1L	3GeV	fiber direct	2.5V	scanned	36 points scan for MIP calibration	

2007-03-14 17:55 S. Uozumi **calibration run without tungsten**

400451	MIP calibration	T1L	3GeV	fiber direct	2.5V	scanned	36 points scan for MIP calibration	

2007-03-14 19:19 S. Uozumi **calibration run without tungsten**

400452	MIP calibration	T1L	3GeV	fiber direct	2.5V	scanned	36 points scan for MIP calibration	

2007-03-14 19:19 S. Uozumi **calibration run without tungsten**

400452	MIP calibration	T1L	3GeV	fiber direct	2.5V	scanned	36 points scan for MIP calibration	

2007-03-14 20:21 S. Uozumi **calibration run without tungsten**

400453	MIP calibration	T1L	3GeV	fiber direct	2.5V	scanned	36 points scan for MIP calibration	

2007-03-14 20:21 S. Uozumi **calibration run without tungsten**

400453	MIP calibration	T1L	3GeV	fiber direct	2.5V	scanned	36 points scan for MIP calibration	

2007-03-14 23:47 S. Uozumi **MIP calibration runs**

2007-03-14 23:56

Runs between 400453 - 400457 are MIP calibration run without tungsten.
Run 400458 is useless.

2007-03-14 23:59 S. Uozumi **precise detector scan**

400459	MIP run	T1L	3GeV	fiber direct	2.5V	scanned	precise scan (9x9	

2007-03-14 23:59 S. Uozumi **precise detector scan**

400459	MIP run	T1L	3GeV	fiber direct	2.5V	scanned	precise scan (9x9	

2007-03-15 00:03 Roman Poeschl **Stage positions in database**

Dear Colleagues,

due to a bug in the steering file the stage positions were not automatically filled
up to run 400450. This has been corrected and for runs > 400450 they should be
immediately available.

Runs smaller than this 400450 are currently processed in the grid where for most of the
runs the db is already updated.

As an example I have read out the db for run 400368
and found:

Moving stage position x[mm]: 34.8
Moving stage position y[mm]: 783.2

The jobs should be finished by tomorrow morning. Try to access the data for any desired run
and contact me in case of problems.

Sorry for the inconvenience.

Cheers,

Roman

2007-03-15 07:53 S. Uozumi **precise detector scan**

400460	MIP run	T1L	3GeV	fiber direct	2.5V	scanned	precise

precise scan (9x9 points)|

2007-03-15 07:53 S. Uozumi **precise detector scan**

400460	MIP run	T1L	3GeV	fiber direct	2.5V	scanned	precise

precise scan (9x9 points)|

2007-03-15 10:09 S. Uozumi **precise detector scan**

400462	MIP run	T1L	3GeV	fiber direct	2.5V	scanned	precise scan (9x9	

2007-03-15 10:09 S. Uozumi **precise detector scan**

400462	MIP run	T1L	3GeV	fiber direct	2.5V	scanned	precise scan (9x9	

2007-03-15 14:05 S. Uozumi **1 strip precise scan**

400464	MIP run	T1L	3GeV	fiber direct	2.5V	scanned	precise scan of strip 5 (of X layers) strip (3x10points)	

2007-03-15 14:05 S. Uozumi **1 strip precise scan**

400464	MIP run	T1L	3GeV	fiber direct	2.5V	scanned	precise scan of one strip (3x10points)	

2007-03-15 17:10 S. Uozumi et al. **configuration changed**

We have switched from the 1st configuration (fiber+direct combination) to the 2nd configuration (direct+fiber).
Then proceed to the comissioning run to check dead channels...

2007-03-15 18:34 S. Uozumi **comissioning run for 2nd configuration**

400465	MIP run	T1L	3GeV	fiber direct	2.5V	scanned	entire detector scan for comissioning	

2007-03-15 18:34 S. Uozumi **comissioning run for 2nd configuration**

400465	MIP run	T1L	3GeV	fiber direct	2.5V	scanned	entire detector scan for comissioning	

2007-03-16 09:12 S. Uozumi **calibration run without tungsten**

400468	beam	T1L	3GeV	direct fiber	2.5V	scanned	MIP calibration without tungsten (36 points)	

2007-03-16 09:12 S. Uozumi **calibration run without tungsten**

400468	beam	T1L	3GeV	direct fiber	2.5V	scanned	MIP calibration without tungsten (36 points)	

2007-03-16 09:12 S. Uozumi **MIP calibration runs for 2nd configuration**

Runs 400468-400471 are MIP calibration run for 2nd (direct+fiber) configuration before putting tungsten.

2007-03-16 09:15 daniel **temperature data to 16-03-07 and plotting script**

I attach temperature data for this range.
suspected bad measurements (due to some noise?) are commented out with "#".

these are taken from caliceon@flcscecalsc:~/temperature_ana/output/summaryTemp.txt

I also post the script to plot the data.
(from caliceon@flcscecalsc:~/temperature_ana/plotAllTempChan.C

format of the data is:

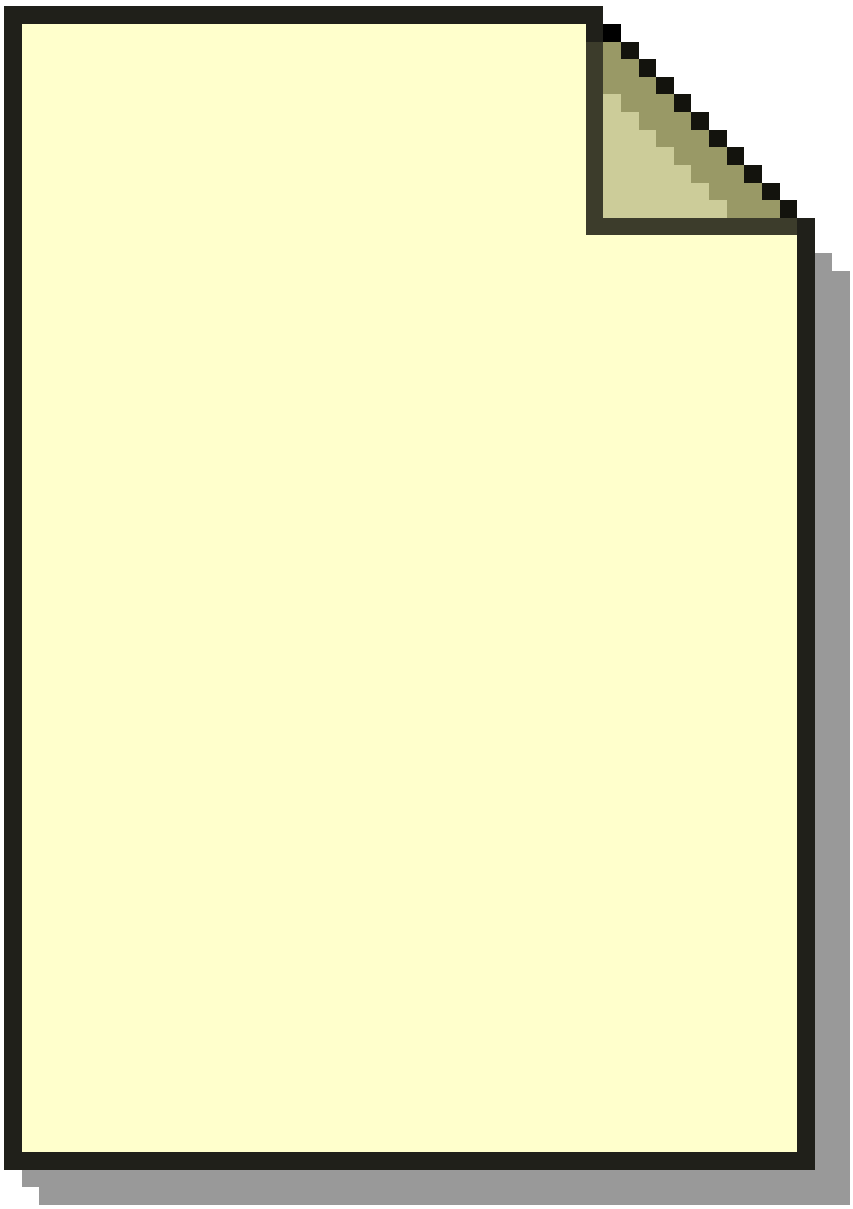
date & temperature
voltages read on 16 channels
temperatures on the 16 channels

these are the positions of the 16 sensors:

```
 tl->AddEntry(graphs[0 ], "layer3 side");
 tl->AddEntry(graphs[1 ], "layer3 top");
 tl->AddEntry(graphs[2 ], "layer7 side");
 tl->AddEntry(graphs[3 ], "layer7 top");
 tl->AddEntry(graphs[4 ], "layer11 side");
 tl->AddEntry(graphs[5 ], "layer11 top");
 tl->AddEntry(graphs[6 ], "plastic support");
 tl->AddEntry(graphs[7 ], "steel plate");
 tl->AddEntry(graphs[8 ], "layer17 side");
```

```
 tl->AddEntry(graphs[9 ], "layer17 top");
 tl->AddEntry(graphs[10], "layer21 side");
 tl->AddEntry(graphs[11], "layer21 top");
 tl->AddEntry(graphs[12], "layer25 side");
 tl->AddEntry(graphs[13], "layer25 top");
 tl->AddEntry(graphs[14], "air in box");
 tl->AddEntry(graphs[15], "air outside box");

i suggest to get the mppc temperature you average the values for the
monitors mounted directly on the layers: 0->5 and 8->13
```



File: http://ttfinfo.desy.de/CALICEelog/data/Analysis/SCECAL/2007-03-16T09:15:36-00.txt

2007-03-16 09:15	S. Uozumi	**precise detector scan**						
400473	MIP run	T1L	3GeV	direct fiber	2.5V	scanned	precise scan (9x9	

2007-03-16 09:15	S. Uozumi	**precise detector scan**						
400473	MIP run	T1L	3GeV	direct fiber	2.5V	scanned	precise scan (9x9	

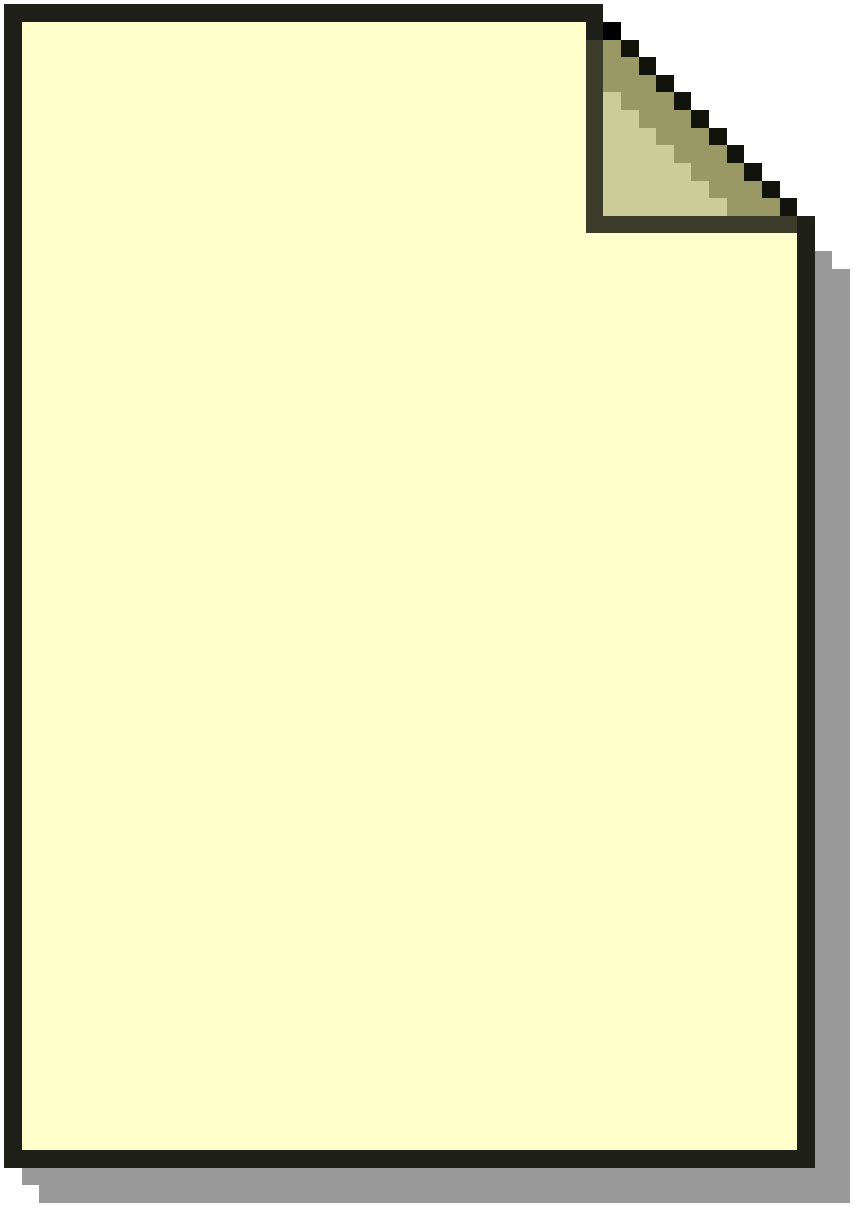
2007-03-16 09:16	S. Uozumi	**precise detector scan**						
400474	MIP run	T1L	3GeV	direct	2.5V	scanned	precise	

				fiber			scan (9x9	

2007-03-16 09:16 S. Uozumi **precise detector scan**

400474	MIP run	T1L	3GeV	direct fiber	2.5V	scanned	precise scan (9x9	

2007-03-16 09:18 daniel **temperature plotting script**



File: http://ttfinfo.desy.de/CALICEelog/data/Analysis/SCECAL/2007-03-16T09:18:52-00.C

2007-03-16 11:35 daniel **temperature data and macro**

please see the following links:

http://ttfinfo.desy.de/CALICEelog/show.jsp?dir=/Analysis/SCECAL&pos=2007-03-16T09:15:36

http://ttfinfo.desy.de/CALICEelog/show.jsp?dir=/Analysis/SCECAL&pos=2007-03-16T09:18:52

2007-03-16 14:25 S. Uozumi **precise detector scan**

400475	MIP run	T1L	3GeV	direct fiber	2.5V	scanned	precise detector scan (81 points)

2007-03-16 14:25 S. Uozumi **precise detector scan**

400475	MIP run	T1L	3GeV	direct fiber	2.5V	scanned	precise scan of one strip (3x10points)	

2007-03-16 14:52 S. Uozumi **1 strip precise scan**

400477	MIP run	T1L	3GeV	direct fiber	2.5V	scanned	precise scan of one strip (3x10points)	

2007-03-16 14:52 S. Uozumi **1 strip precise scan**

400477	MIP run	T1L	3GeV	direct fiber	2.5V	scanned	precise scan of one strip (3x10points)	

2007-03-16 16:07 S. Uozumi **1 strip precise scan**

400478	MIP run	T1L	3GeV	direct fiber	2.5V	scanned	precise scan of one strip (3x10points)	

2007-03-16 16:07 S. Uozumi **1 strip precise scan**

400478	MIP run	T1L	3GeV	direct fiber	2.5V	scanned	precise scan of one strip (3x10points)	

2007-03-17 09:07 S. Uozumi

Runs 400478-400483 are one-strip scan.

2007-03-17 09:09 S. Uozumi **precise detector scan**

400484	MIP run	T1L	3GeV	direct fiber	2.5V	scanned	precise scan (9x9	

2007-03-17 09:09 S. Uozumi **precise detector scan**

400484	MIP run	T1L	3GeV	direct fiber	2.5V	scanned	precise scan (9x9	

2007-03-17 09:09 S. Uozumi

Runs 400484-400488 are over-night runs for precise detector scan with 2nd configuration.

2007-03-17 09:10 S. Uozumi **1 strip precise scan**

400491	MIP run	T1L	3GeV	direct fiber	2.5V	scanned	precise scan of one strip (3x10points)	

2007-03-17 09:10 S. Uozumi **1 strip precise scan**

400491	MIP run	T1L	3GeV	direct fiber	2.5V	scanned	precise scan of one strip (3x10points)	

2007-03-17 10:23 S. Uozumi **1 GeV run**

400492	beam	T1L	1GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

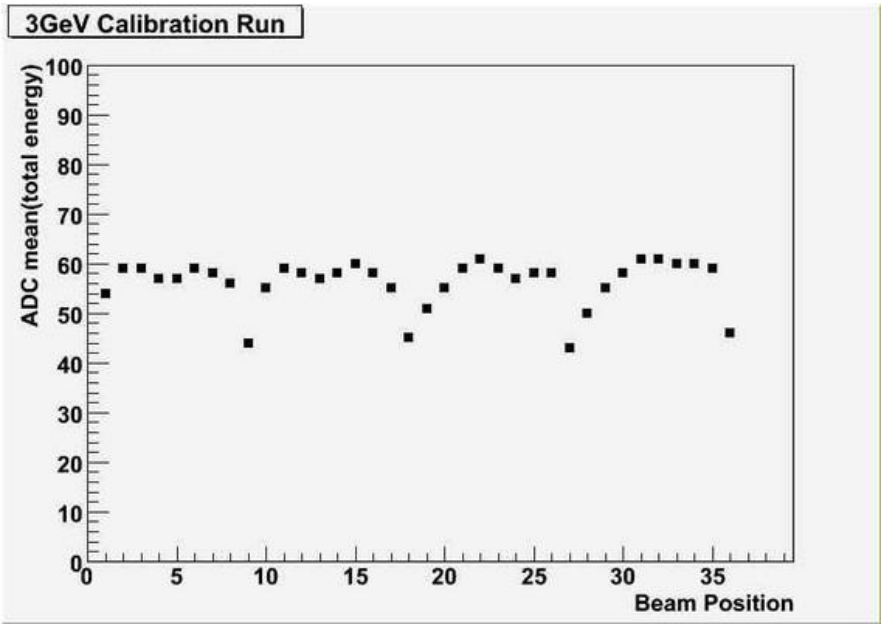
2007-03-17 10:23 S. Uozumi **1 GeV run**

400492	beam	T1L	1GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-17 10:42 S.Chang **Detector Uniformity along the 36 Beam Positions, Calibration Run 400262**

Calibration Run Detector Uniformity along the 36 Beam Positions

3 GeV



File: http://ttfinfo.desy.de/CALICEelog/data/2007/11/17.03/2007-03-17T10:42:26-00.jpg

2007-03-17 10:42 daniel **tracking code**

I made a first iteration of the tracking code and alignment.
I have not yet tested it very carefully.

you can find the code required on flcscecalana in /home/jeans/trackingCode
it runs on the slcio data.

StraightTrackImpl is a class which stores useful data for our straight tracks (the usual class is designed for helices...)

DriftChambertoTrack is the code which does the tracking and fills the track collection

these files can be put in the hcal-v00-01-18/calice-reco/src directory (don't forget to include them in the Makefile.am.

track.steer shows which parameters to use for DriftChambertoTrack

at present it:

- considers only the first hit in a chamber in the case of multiple hits
- ignores the y measurement of layer 4 (nearest the ecal module, which behaves somewhat strangely)

- requires at least 3 hits in x and 3 in y
- has a guess (a much inflated 1mm) as track point error (only used in chisq calculation)
- sometimes removes a hit if nhits (x,y) == 4 and the chisq contribution of that hit is > 500.

- assumes the same drift velocity in all chambers (not true, since the applied voltages are not equal: 1.700, 1.625, 1575, 1650 V in chambers 0->3 respectively)

all of the above can and should be improved!

here is a code snippet of how to get the track information from your code:

1. include <StraightTrackImpl.h>

```
---------------------------
  const std::vector<std::string> *collections = evt->getCollectionNames();
  for (int i=0; i<collections->size(); i++) {
    if (collections->at(i)=="driftchamber_track") {
      cout << "found track " ;
      LCCollection * tracks = evt->getCollection("driftchamber_track");
      if (tracks->getNumberOfElements()!=1) {
        cout << "WARNING, found " << tracks->getNumberOfElements() <<
 " tracks" << endl;
      } else {
        StraightTrackImpl * theTrack = (StraightTrackImpl *) tracks->getElementAt(0);
        float chisqx = theTrack->getChisqX(); // chisq for x hits
        float chisqy = theTrack->getChisqY(); // chisq for y hits
        float x = theTrack->getX(); // X at calo front face
        float y = theTrack->getY(); // Y at calo front face
        float xslope = theTrack->getXslope(); // X slope of track
        float yslope = theTrack->getYslope(); // Y slope of track
        std::hitset<4> xhits = theTrack->getXhits(); // hitmap for x layers layer 0->3

        std::hitset<4> yhits = theTrack->getYhits(); // hitmap for y layers
      }
    }
  }
```

2007-03-17 10:52 S. Uozumi et al. **tungsten inserted to 2nd-config SCECAL**

We have inserted 25 tungsten plates into SCECAL 2nd configuration.

2007-03-17 10:57 daniel **tracking code**

i made some short documentation for the tracking code here:

http://ttfinfo.desy.de/CALICEelog/show.jsp?dir=/Analysis/SCECAL&pos=2007-03-17T10:42:33

2007-03-17 11:44 S. Uozumi **1 GeV run**

400493	beam	T1L	1GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-17 11:44 S. Uozumi **1 GeV run**

400493	beam	T1L	1GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-17 11:47 S. Uozumi **2 GeV run**

400495	beam	T1L	2GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-17 11:47 S. Uozumi **2 GeV run**

400495	beam	T1L	2GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-17 13:30 S. Uozumi **2 GeV run**

400497	beam	T1L	2GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-17 13:30 S. Uozumi **2 GeV run**

400497	beam	T1L	2GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-17 14:42	S. Uozumi	**3 GeV run**						
400499	beam	T1L	3GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-17 14:42	S. Uozumi	**3 GeV run**						
400499	beam	T1L	3GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-17 18:14	S. Uozumi	**3 GeV run**						
400500	beam	T1L	3GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-17 18:14	S. Uozumi	**3 GeV run**						
400500	beam	T1L	3GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-17 18:50	S. Uozumi	**4 GeV run**						
400502	beam	T1L	4GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-17 18:50	S. Uozumi	**4 GeV run**						
400502	beam	T1L	4GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-17 22:34	S. Uozumi	**6 GeV run**						
400504	beam	T1L	6GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-17 22:34	S. Uozumi	**6 GeV run**						
400504	beam	T1L	6GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-18 09:19	S. Uozumi	**6 GeV run**						
400505	beam	T1L	6GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-18 09:19	S. Uozumi	**6 GeV run**						
400505	beam	T1L	6GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-18 09:20	S. Uozumi	**6 GeV run**						
400506	beam	T1L	6GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-18 09:20	S. Uozumi	**6 GeV run**						
400506	beam	T1L	6GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-18 09:35		S. Uozumi	**4 GeV run**					
400508	beam	T1L	4GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-18 09:35		S. Uozumi	**4 GeV run**					
400508	beam	T1L	4GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

stopped at 50th point because beam is gone (due to HERA injection, will take ~2 hrs).

2007-03-18 10:53		S. Uozumi	**5 GeV run**					
400509	beam	T1L	5GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-18 10:53		S. Uozumi	**5 GeV run**					
400509	beam	T1L	5GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-18 17:37		S. Uozumi	**5 GeV run**					
400510	beam	T1L	5GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-18 17:37		S. Uozumi	**5 GeV run**					
400510	beam	T1L	5GeV	direct fiber	2.5V	scanned	36 9 10 stage scan	

2007-03-18 20:46		S. Uozumi	**4 GeV run**					
400512	beam	T1L	4GeV	direct fiber	2.5V	(25,20) detector center	Additional center injection run for 4GeV to add some more data	

100k event

2007-03-18 20:46		S. Uozumi	**4 GeV run**					
400512	beam	T1L	4GeV	direct fiber	2.5V	(25,20) detector center	Additional center injection run for 4GeV	

2007-03-18 21:12		S. Uozumi	**3 GeV run**					
400513	beam	T1L	3GeV	direct fiber	2.5V	scanned	one-strip precise scan	

2007-03-18 21:12		S. Uozumi	**3 GeV run**					
400513	beam	T1L	3GeV	direct fiber	2.5V	scanned	one-strip precise scan	

2007-03-18 22:22		S. Uozumi	**3 GeV run**					
400514	beam	T1L	3GeV	direct fiber	2.5V	scanned	5x20 points	

							precise scan for X-layer strips 5 14	

2007-03-18 22:22	S. Uozumi	**3 GeV run**						
400514	beam	T1L	3GeV	direct fiber	2.5V	scanned	5x20 points precise scan for X-layer strips 5 14	

2007-03-19 10:03	S. Uozumi	**3 GeV run**						
400515	beam	T1L	3GeV	direct fiber	2.5V	scanned	5x20 points precise scan for X-layer strips 5 14	

2007-03-19 10:03	S. Uozumi	**3 GeV run**						
400515	beam	T1L	3GeV	direct fiber	2.5V	scanned	5x20 points precise scan for X-layer strips 5 14	

2007-03-19 10:04	S. Uozumi	**3 GeV run**						
400516	beam	T1L	3GeV	direct fiber	2.5V	scanned	5x20 points precise scan for X-layer strips 5 14	

2007-03-19 10:04	S. Uozumi	**3 GeV run**						
400516	beam	T1L	3GeV	direct fiber	2.5V	scanned	5x20 points precise scan for X-layer strips 5 14	

2007-03-19 14:56 S. Uozumi **Tracking information**

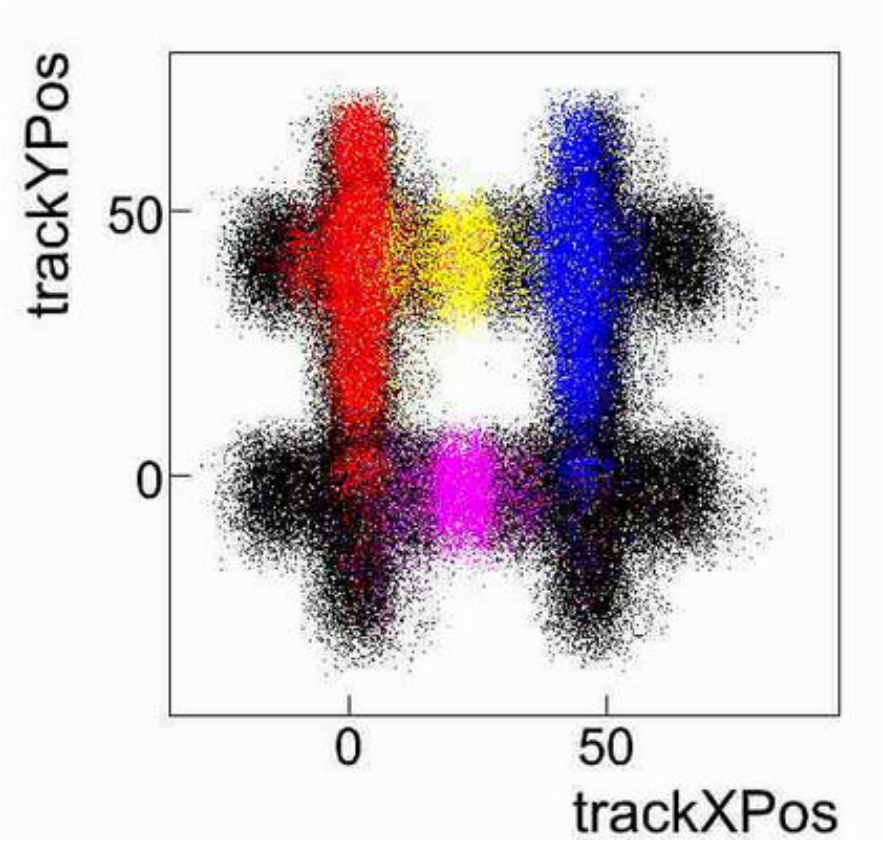
This plot shows incident position of the beam at detector surface extracted from drift chamber information.

Data is from run 400451 (MIP calibration with fiber+direct configuration).
Black points are all the events, each color shows events where a certain strip has non-pedestal signal.

Red ... L1-S3 have >50 ADC counts
Yellow ... L1-S5
Blue ... L1-S7
Pink ... L1-S14

I expected to see sharp image of the strip, but the image is diluted.
It means that optical cross-talk of strips, or drift-chamber position resolution is not yet good enough?

An another red image under strip 5 implies the optical light cross-talk exists.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/19.03/2007-03-19T14:56:23-00.jpg

2007-03-19 15:13 saori et al. **Z position**

http://azusa.shinshu-u.ac.jp/~saori/desy2007/z-position.pdf

2007-03-19 15:18 S. Uozumi **New version of ntuples**

I've put very preliminary version of new root tree file under the directory:
flcscecalana:/home/anauser/newtrees/v1_0/

Some more information will follow.

2007-03-19 16:10 S. Uozumi **3 GeV run**

400517	beam	T1L	3GeV	direct fiber	2.5V	scanned	5x20 points precise scan for X-layer strips 5 14	

2007-03-19 16:10 S. Uozumi **3 GeV run**

400517	beam	T1L	3GeV	direct fiber	2.5V	scanned	5x20 points precise scan for X-layer strips 5 14	

2007-03-19 17:08 S. Uozumi **MIP calibration**

400519	MIP calibration	T1L	3GeV	direct fiber	2.5V	scanned	detector scan (36 points) for MIP calibration	

2007-03-19 17:08 S. Uozumi **MIP calibration**

400519	MIP calibration	T1L	3GeV	direct fiber	2.5V	scanned	detector scan (36 points) for MIP calibration	

2007-03-19 17:08 saori et al. **tungsten removed**

we removed the tungsten plates from the SCECAL.

2007-03-19 18:09 S. Uozumi **Run summary**

Again I summarize all the useful runs here.

1st configuration (fiber+direct) 1st round ----------

MIP calibration before putting tungsten: 400262

detector scan (36 points):
1GeV ... 400309(point0~35)
2GeV ... 400308(point0~35)
3GeV ... 400305(point0~35)
4GeV ... 400302(point0~35)
5GeV ... 400296(point0~35), 400310(point0~35), 400311(point0~35), 400314(point0~35)
6GeV ... 400285~400291(point0~35)

center part scan (9 points)
1GeV ... 400309(point36~44)
2GeV ... 400308(point36~44)
3GeV ... 400305(point36~44)
4GeV ... 400302(point36~44), 400313(point36~44)
5GeV ... 400296(point36~44), 400310(point36~44), 400311(point36~44), 400314(point36~44)
6GeV ... 400264,Run400285~400291(point36~44)

Center injection (1 points x many times)
1GeV ... 400317(90k ev)
2GeV ... 400318(90k ev)
3GeV ... 400319(90k ev)
4GeV ... 400320(90k ev)
5GeV ... 400314(point45~54),400321(90k ev)
6GeV ... 400322(90k ev)

end of 1st configuration 1st round ----------

LED run with 1st configuration (only 3 layers) ----------

Pedestal runs
400382 ... CmNoise
400398 ... PmNoise

for Layer7-Strip15,
400406 ... CmLed for inter-calibration
400407 ... PmLed for inter-calibration
400385 ... CmLed to see 1pe peak
400386 ... CmLed to see 1pe peak with over-voltage +1V (3.5V)

for Layer8-Strip15,
400393 ... CmLed for inter-calibration
400396 ... PmLed for inter-calibration
400394 ... CmHoldScan
400395 ... PmHoldScan
400401 ... CmLed to see 1pe peak, 100k ev.
400402 ... CmLed to see 1pe peak, 100k ev. but with slightly higher light to see adjacent strips

400419 ... CmLed to see 1pe peak, 100k ev.
400420 ... CmLed to see 1pe peak, with over-voltage +1V (3.5V)

for Layer14-Strip13,
400411 ... CmLED for inter-calibration
400412 ... PmLed for inter-calibration
400413 ... CmLedHoldScan for confirmation
400414 ... PmLedHoldScan for confirmation
400416 ... CmLed to see 1pe peak, 100k ev.
400417 ... CmLed to see 1pe peak, 100k ev. with over-voltage +1V(3.5V)
400421 ... CmLed to see 1pe peak, 100k ev. but slightly higher light to see adjacent strips

end of LED runs ----------

between 1st and 2nd round, the drift chamber is tuned to improve efficiency.

1st configuration (fiber+direct) 2st round ----------

```
Each run contains data with 55 points
(36 points for center of each strip of X and Y layers + 9 points for central part scan + 1 points

 x 10 times for central injection).
1 points have 10k events of beam data and 1k events of pedestal.

1 GeV ... 400422, 400423
2 GeV ... 400425, 400426
3 GeV ... 400427, 400428
4 GeV ... 400429, 400438
5 GeV ... 400432, 400437
6 GeV ... 400434, 400435

end of 1st configuration 2nd round --------------------------------

LED run after 1st config 2nd round to see gain of Layer 6 strip 14.---------------

Pedestal runs
400442 ... CmNoise
400443 ... PmNoise

for Layer6-Strip14,
400440 ... CmLed for inter-calibration
400441 ... PmLed for inter-calibration
400445 ... CmLed to see 1pe peak
400446 ... CmLed to see 1pe peak around strip 14.

For Layer11-Strip15,
400449 ... CmLed for inter-calibration
400450 ... PmLed for inter-calibration
400447 ... CmLed to see 1pe peak
400448 ... CmLed to see 1pe peak around strip 15.

end of LED runs ---------------------------------------------

MIP calibration with 1st configuration after removing tungsten ---------------
400451
400452
400453
400454
400455
400456
400457

end of MIP calibration run ----------------------------


Precise detector scan with 1st config after removing tungsten ---------------
400459 (81 points entire detector)
400460 (81 points entire detector)
400462 (81 points entire detector)
400464 (30 points, precise scan for X-layer strip-5)
end of precise scan -----------------------------------


2nd configuration MIP calibration before putting tungsten ---------------
400468
400469
400470
400471
end of MIP calibration ----------------------


2nd configuration precise detector scan before putting tungsten ------------
400473 (81 points entire detector)
400474 (81 points entire detector)
400475 (81 points entire detector)
400477 (30 points, precise scan for X-layer strip-5)
400478 (30 points, precise scan for X-layer strip-5)
400479 (30 points, precise scan for X-layer strip-5)
400480 (30 points, precise scan for X-layer strip-5)
400481 (30 points, precise scan for X-layer strip-5)
400482 (30 points, precise scan for X-layer strip-5)
400483 (30 points, precise scan for X-layer strip-5, stopped at 7th point)
400484 (81 points entire detector)
400485 (81 points entire detector)
400486 (81 points entire detector)
400487 (81 points entire detector)
400488 (81 points entire detector)
400491 (30 points, precise scan for X-layer strip-5)
end of precise scan -------------------


2nd configuration energy and position scan ----------------
400492, 400493 (1GeV 36+9+10 points)
400495, 400497 (2GeV 36+9+10 points)
```

400499, 400500 (3GeV 36+9+10 points)
400502 (4GeV 36+9+10 points)
400508 (4GeV 36+9+5 points)
400512 (4GeV 90k central injection)
400509, 400510 (5GeV 36+9+10 points)
400504, 400505, 400506 (6GeV 36+9+10 points)
400513 (3GeV 3x10 points precise scan for X-layer strip 5)
400514 (3GeV 5x20 points precise scan for X-layer strip 5 and 14)
400515 (3GeV 5x20 points precise scan for X-layer strip 5 and 14)
400516 (3GeV 5x20 points precise scan for X-layer strip 5 and 14)
400517 (3GeV 5x20 points precise scan for X-layer strip 5 and 14)
end of 2nd configuration energy / position scan ------------------------

2nd configuration MIP calibration after removing tungsten ---------------
400519
400520
400521
400522
400523
400524
400525
400526
400527
end of MIP calibration ----------------------

Precise scan with 2nd configuration without tungsten -----------
400529 ... entire detector scan (9x9 points)
400530 ... entire detector scan (9x9 points)
400531 ... entire detector scan (9x9 points)
400532 ... entire detector scan (9x9 points)
400533 ... entire detector scan (9x9 points)
400535 ... one strip scan (3x10 points)
400536 ... one strip scan (3x10 points), may be stopped before finished
400537 ... one strip scan (3x10 points), may be stopped before finished
end of precise scan --------------------------

MIP calibration with 3rd configuration (36 points scanned)
400543
400544
400545
400546
400547
400548
400549
400550
400551 ... stopped at 34th point, data available until 33th point
end of MIP calibration with 3rd config ---------------------

energy and position scan with 3rd configuration
400650,400651 (1GeV 36+9+10 points)
400653,400654 (2GeV 36+9+10 points)
400655,400656 (3GeV 36+9+10 points)
400657 (4GeV 36+9 points)
400772, 400773 (4GeV 36+9+10 points)
400765 (5GeV 36 points)
400774, 400775 (5GeV 36+9+10 points)
400647,400648 (6GeV 36+9+10 points)
end of energy scan with 3rd config --------------------------

3rd configuration precise scan with tungsten -----------------
400658 (9x9 points)
400659 (9x9 points)
400767 (9x9 points)
400768 (9x9 points)
400769 (9x9 points)
400770 (9x9 points)
400777 (5x20 points)
400778 (5x20 points)
400779 (5x20 points)
400780 (5x20 points)
400781 (5x20 points)

end of precise scan --

MIP calibration after tungsten removal with 3rd configuration --------------
400784
400785
400786
end of MIP calibration ------------------------------

precise scan after tungsten removal with 3rd configuration
400788 (3x10 one strip precise scan)
400789 (3x10 one strip precise scan)
400790 (3x10 one strip precise scan)
400791 (3x10 one strip precise scan)
400792 (3x10 one strip precise scan)

```
400793 (3x10 one strip precise scan)
400794 (3x10 one strip precise scan)
400796 (9x9 precise entire detector scan)
400797 (9x9 precise entire detector scan)
400798 (9x9 precise entire detector scan)
400799 (9x9 precise entire detector scan)
400800 (9x9 precise entire detector scan)
400801 (9x9 precise entire detector scan)
400802 (9x9 precise entire detector scan)
end of precise scan -------------------------------------
```

2007-03-19 18:59 S. Uozumi **dead channels in 2nd configuration**

```
Summary of dead channels in 2nd configuration:
Layer3-strip9
Layer14-strip8
Layer16-strip1
Layer18-strip10
Layer21-strip17
```

2007-03-20 00:06 S. Uozumi **MIP calibration runs**

```
Run between 400519-400527 are MIP calibration runs.
```

2007-03-20 00:11 S. Uozumi **precise scan**

400529	MIP run	T1L	3GeV	direct fiber	2.5V	scanned	9x9 precise scan	

2007-03-20 00:11 S. Uozumi **precise scan**

400529	MIP run	T1L	3GeV	direct fiber	2.5V	scanned	9x9 precise scan	

2007-03-20 10:13 **overnight precise scan**

```
Run400529-400533 are overnight precise scan with 9x9 points without tungsten.
```

2007-03-20 10:14 S. Uozumi **3 GeV run**

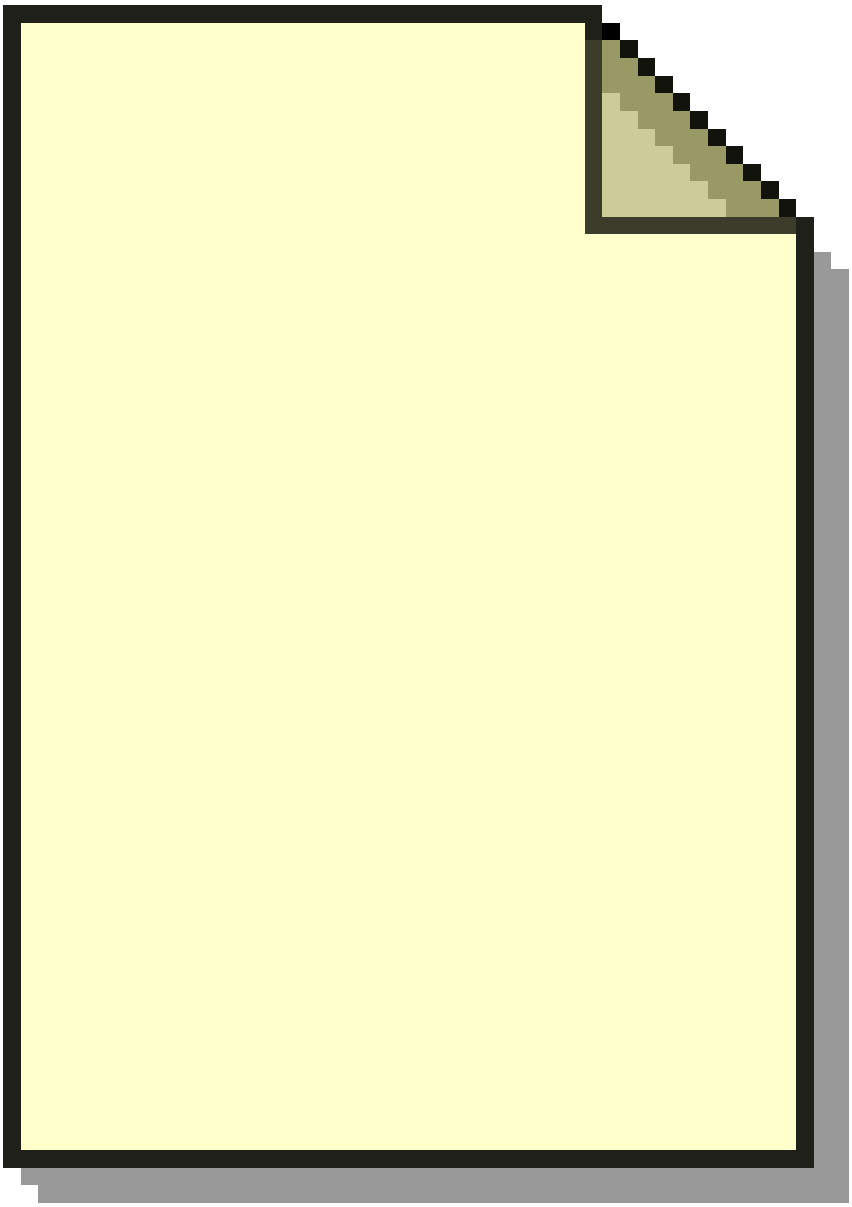
400535	MIP run	T1L	3GeV	direct fiber	2.5V	scanned	3x10 one-strip precise scan	

2007-03-20 10:14 S. Uozumi **3 GeV run**

400535	MIP run	T1L	3GeV	direct fiber	2.5V	scanned	3x10 one-strip precise scan	

2007-03-20 11:29 S. Uozumi

```
Final mapping file for 2nd configuration after fixing FPCB swapping:
```

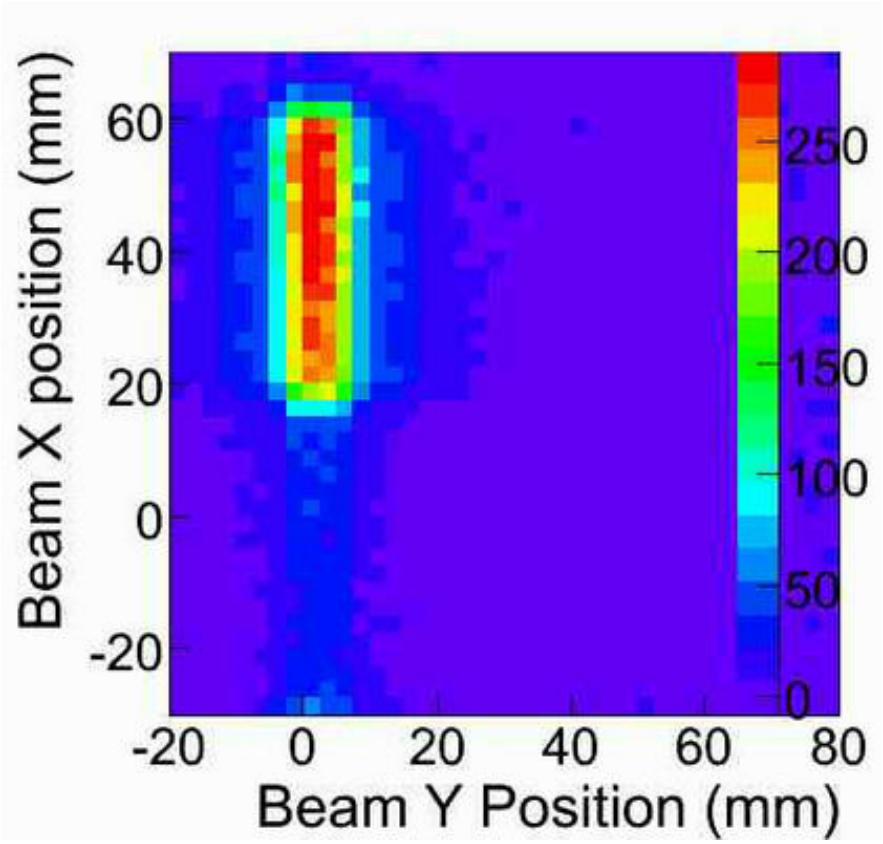


File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/19.03/2007-03-20T11:29:18-00.dat

2007-03-20 11:42 S. Uozumi et al. **check on tracking information**

Now the previous problem on tracking information is gone.
I found that polarity of Y direction on tracking information is flipped.
This shows response of Layer-1 strip-3 with various beam injection position (bug corrected)
with a MIP calibration run (run400459).
The image of the strip is still not very sharp, maybe due to tracking resolution and optical
cross-talk?

But anyway size of the strip is consistent with the real size (1x4.5cm).



File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/20.03/2007-03-20T11:42:54-00.jpg

2007-03-20 16:04 S. Uozumi **some runs**

Runs 400536-400537 are precise scan for one strip with 2nd configuration without tungsten, but not sure all the points are scanned.
It may be stopped on the way before it was finished.

2007-03-20 18:46 S.H.Chang et al. **Configuration is switched to 3rd Configuration(KNU + fiber)**

We have switched from 2nd Configuration(Direct+fiber) to 3rd Configuration(KNU+fiber).

2007-03-20 19:00 S. Uozumi et al. **comissioning run for 3rd configuration**

200538	comissioning run	T1L	3GeV	KNU fiber	2.5V	scanned	36 points detector scan for comissioning	

2007-03-20 19:00 S. Uozumi et al. **comissioning run for 3rd configuration**

200538	MIP run	T1L	3GeV	KNU fiber	2.5V	scanned	36 points detector scan for comissioning	

2007-03-20 20:12 S. Uozumi **comissioning run for 3rd configuration**

400539	comissioning run	T1L	3GeV	KNU fiber	2.5V	scanned	36 points detector scan for comissioning	

HV for KNU module is tuned from +0.7V to +1.2V above Overvoltage=2.5V
Just see the MIP peak position, so stopped after 1st point

2007-03-20 20:12 S. Uozumi **comissioning run for 3rd configuration**

400539	comissioning	T1L	3GeV	KNU fiber	2.5V	scanned	36	

	run						points detector scan for comissioning	

HV for KNU module is tuned to be 1.2V

2007-03-20 20:41 S. Uozumi et al. **comissioning run for 3rd configuration**

400540	comissioning run	T1L	3GeV	KNU fiber	2.5V	(-15,42) position of strip 1 on X layer	comissioning run	

2007-03-20 20:41 S. Uozumi et al. **comissioning run for 3rd configuration**

400540	comissioning run	T1L	3GeV	KNU fiber	2.5V	(-15,42) position of strip 1 on X layer	comissioning run	

2007-03-20 20:41 S. Uozumi et al. **comissioning run for 3rd configuration**

400541	comissioning run	T1L	3GeV	KNU fiber	2.5V	(-15,42) position of strip 1 on X layer	comissioning run	

2007-03-20 20:41 S. Uozumi et al. **comissioning run for 3rd configuration**

400541	comissioning run	T1L	3GeV	KNU fiber	2.5V	(-15,42) position of strip 1 on X layer	comissioning run	

2007-03-20 21:04 S. Uozumi et al. **comissioning run for 3rd configuration**

400542	comissioning run	T1L	3GeV	KNU fiber	2.5V	(2,-20) position of strip 1 on Y layer	comissioning run	

2007-03-20 21:04 S. Uozumi et al. **comissioning run for 3rd configuration**

400542	comissioning run	T1L	3GeV	KNU fiber	2.5V	(2,-20) position of strip 1 on Y layer	comissioning run	

2007-03-20 21:30 S. Uozumi et al. **comissioning run for 3rd configuration**

400543	comissioning run	T1L	3GeV	KNU fiber	2.5V	scanned	36 points detector scan for comissioning	

The voltage for KNU module is set to 1.2V above 0V

2007-03-20 21:30 S. Uozumi et al. **comissioning run for 3rd configuration**

400543	comissioning run	T1L	3GeV	KNU fiber	2.5V	scanned	36 points detector scan for comissioning	

The voltage for KNU module is set to 1.2V above 0V

2007-03-21 00:40 RomanTrigg **Trigger Info for ScEcal Running**

Dear Colleagues,

I have updated the software and the database such that the trigger information can be extracted from the converted files (see also entry in the calice s/w list).

Since it was not clear when the triggers were connected how I have queried the database and created two files.

1) One containing the run start and stop times

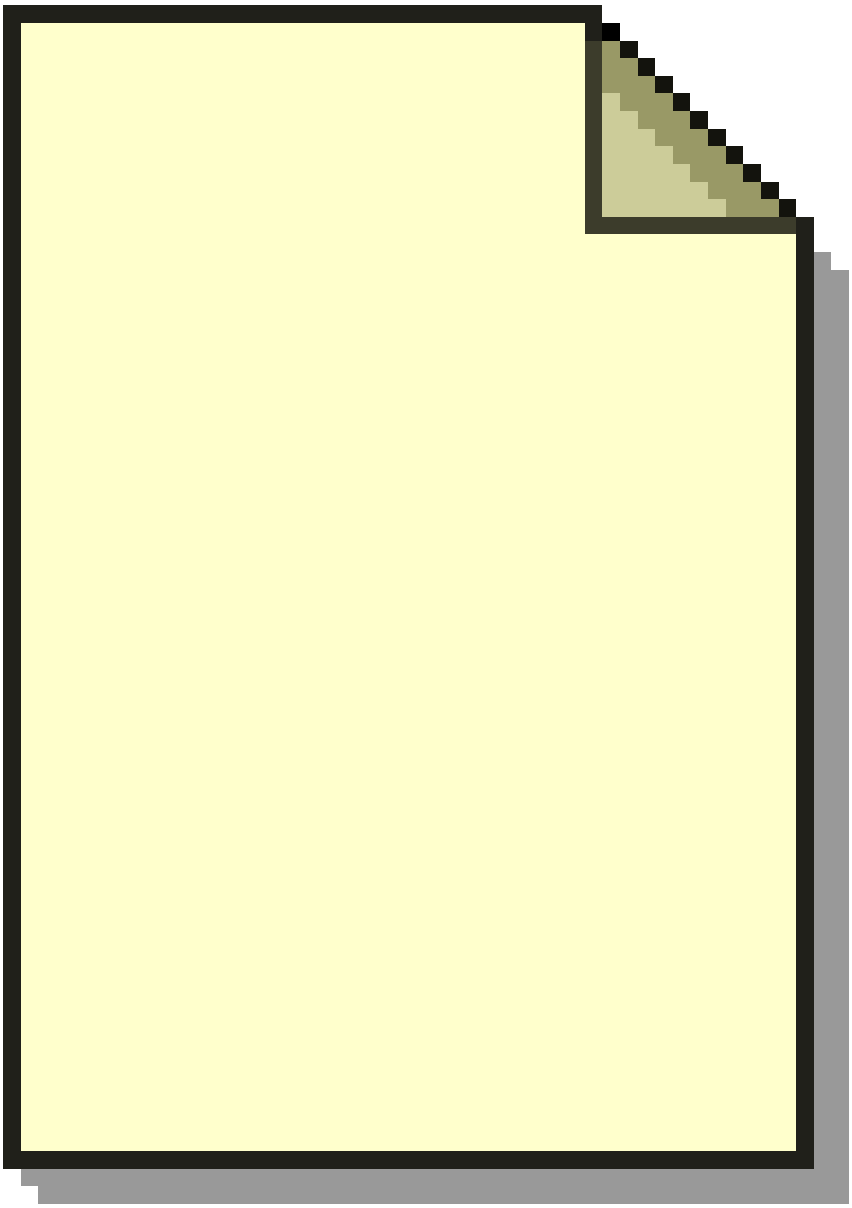
```
2) All the (non-zero) trigger configurations

From these two files one can deduce how the trigger was configured
at which time and for which run.
(I could have made it a bit more sophisticated but it should be ok.)

The first one is attached to this entry, the other one i will attach to the
next entry.

Cheers,

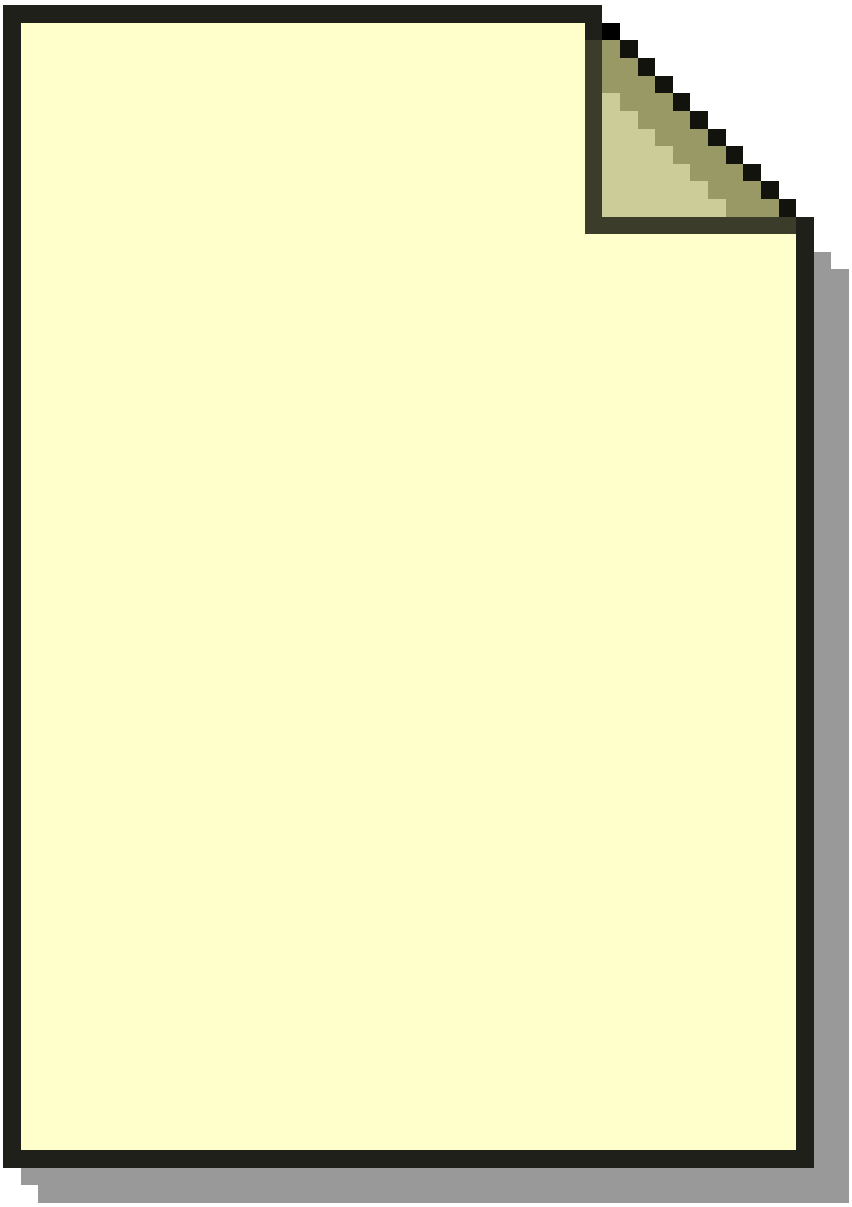
Roman
```



File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/21.03/2007-03-21T00:40:55-00.txt

2007-03-21 00:50 Roman **... and the second one**

```
... here we go
```



File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/21.03/2007-03-21T00:50:00-00.txt

2007-03-21 08:29 S. Uozumi **overnight MIP calibration runs**

```
Runs between 400543-400550 are overnight MIP calibration run with 3rd configuration.
Run 400551 is stopped at 34th point, but data until 33th points are usable.
```

2007-03-21 18:29 S. Uozumi et al. **Thanks!**

```
Thanks, Roman!
```

2007-03-21 18:30 S. Uozumi et al.

```
The DESY-II is down from this morning to afternoon, just running LED runs...
```

2007-03-21 19:41 saori **linearity and resolution of 2nd configuration**

```
direct+fiber(2nd configuration)
preliminary results of linearity and energy resolution

Linearity looks good.
Energy resolution is 12.43%.
It has approached the G4 simulation result(12.3%).
```



File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/21.03/2007-03-21T19:41:10-00.pdf

2007-03-21 21:11	S. Uozumi	**LED run**					
400553	CmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:11	S. Uozumi	**LED run**					
400553	CmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:12	S. Uozumi	**LED run**					
400554	PmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:12	S. Uozumi	**LED run**					
400554	PmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:12	S. Uozumi	**pedestal run**					
400555	CmNoise	pedestal		KNU fiber	2.5V		pedestal run for LED calibration

2007-03-21 21:12	S. Uozumi	**pedestal run**					
400555	CmNoise	pedestal		KNU fiber	2.5V		pedestal run for LED calibration

2007-03-21 21:13	S. Uozumi	**pedestal run**					
400556	PmNoise	pedestal		KNU fiber	2.5V		pedestal run for LED calibration

with LED system off

2007-03-21 21:13	S. Uozumi	**pedestal run**					
400556	PmNoise	pedestal		KNU fiber	2.5V		pedestal run for LED calibration

2007-03-21 21:13	S. Uozumi	**pedestal run**					
400557	CmNoise	pedestal		KNU fiber	2.5V		pedestal run for LED calibration

with LED system off

2007-03-21 21:13	S. Uozumi	**pedestal run**					
400557	CmNoise	pedestal		KNU fiber	2.5V		pedestal run for LED calibration

2007-03-21 21:14	S. Uozumi	**pedestal run**					
400558	PmNoise	pedestal		KNU fiber	2.5V		pedestal run for LED calibration

2007-03-21 21:14	S. Uozumi	**pedestal run**					
400558	PmNoise	pedestal		KNU fiber	2.5V		pedestal run for LED calibration

2007-03-21 21:15	S. Uozumi	**LED run**					
400562	CmLed	LED		KNU fiber	2.5V		LED run to see 1pe peak

2007-03-21 21:15	S. Uozumi	**LED run**					
400562	CmLed	LED		KNU fiber	2.5V		LED run to see 1pe peak

2007-03-21 21:16	S. Uozumi	**LED run**					
400564	CmLed	LED		KNU fiber	2.5V		LED run to see 1pe peak

2007-03-21 21:16	S. Uozumi	**LED run**					
400564	CmLed	LED		KNU fiber	2.5V		LED run to see 1pe peak

2007-03-21 21:16	S. Uozumi	**LED run**					
500567	CmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:16	S. Uozumi	**LED run**					
500567	CmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:17	S. Uozumi	**LED run**					
400568	PmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:17	S. Uozumi	**LED run**					
400568	PmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:19	S. Uozumi	**LED run**					
400570	CmLed	LED		KNU fiber	2.5V		LED run to see 1pe peak

2007-03-21 21:19	S. Uozumi	**LED run**					
400570	CmLed	LED		KNU fiber	2.5V		LED run to see 1pe peak

2007-03-21 21:25	S. Uozumi	**LED run**					
400572	CmLed	LED		KNU fiber	2.5V		LED run to see 1pe peak

2007-03-21 21:25	S. Uozumi	**LED run**					
400572	CmLed	LED		KNU fiber	2.5V		LED run to see 1pe peak

2007-03-21 21:26	S. Uozumi	**LED run**					
400577	CmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:26	S. Uozumi	**LED run**					
400577	CmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:26	S. Uozumi	**LED run**					
400578	PmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:26	S. Uozumi	**LED run**					
400578	PmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:27	S. Uozumi	**LED run**					
400580	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:27	S. Uozumi	**LED run**					
400580	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:28	S. Uozumi	**LED run**					
400586	CmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:28	S. Uozumi	**LED run**					
400586	CmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:28	S. Uozumi	**LED run**					
400587	PmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:28	S. Uozumi	**LED run**					
400587	PmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:29	S. Uozumi	**LED run**					
400590	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:29	S. Uozumi	**LED run**					
400590	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:29	S. Uozumi	**LED run**					
400592	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:29	S. Uozumi	**LED run**					
400592	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:33	S. Uozumi	**LED run**					
400594	CmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:33	S. Uozumi	**LED run**					
400594	CmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:33	S. Uozumi	**LED run**					
400595	PmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:33	S. Uozumi	**LED run**					
400595	PmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:34	S. Uozumi	**LED run**					
400597	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:34	S. Uozumi	**LED run**					
400597	CmLed	LED		KNU fiber	2.5V		to see 1pe

							peak

2007-03-21 21:34	S. Uozumi	**LED run**					
400597	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:34	S. Uozumi	**LED run**					
400597	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:35	S. Uozumi	**LED run**					
400599	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:35	S. Uozumi	**LED run**					
400599	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:35	S. Uozumi	**LED run**					
400602	CmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:35	S. Uozumi	**LED run**					
400602	CmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:36	S. Uozumi	**LED run**					
400603	PmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:36	S. Uozumi	**LED run**					
400603	PmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:36	S. Uozumi	**LED run**					
400605	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:36	S. Uozumi	**LED run**					
400605	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:36	S. Uozumi	**LED run**					
400607	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:36	S. Uozumi	**LED run**					
400607	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:37	S. Uozumi	**LED run**					
400609	CmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:37	S. Uozumi	**LED run**					
400609	CmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:37	S. Uozumi	**LED run**					
400610	PmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:37	S. Uozumi	**LED run**					
400610	PmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:38	S. Uozumi	**LED run**					
400612	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:38	S. Uozumi	**LED run**					
400612	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:38	S. Uozumi	**LED run**					
400614	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:38	S. Uozumi	**LED run**					
400614	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:39	S. Uozumi	**LED run**					
400618	CmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:39	S. Uozumi	**LED run**					
400618	CmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:39	S. Uozumi	**LED run**					
400619	PmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:39	S. Uozumi	**LED run**					
400619	PmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:39	S. Uozumi	**LED run**					
400621	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:39 S. Uozumi **LED run**

400621	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:40 S. Uozumi **LED run**

400623	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:40 S. Uozumi **LED run**

400623	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:40 S. Uozumi **LED run**

400625	CmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:40 S. Uozumi **LED run**

400625	CmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:40 S. Uozumi **LED run**

400626	PmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:40 S. Uozumi **LED run**

400626	PmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:41 S. Uozumi **LED run**

400628	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:41 S. Uozumi **LED run**

400628	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:42 S. Uozumi **LED run**

400629	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:42 S. Uozumi **LED run**

400629	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:42 S. Uozumi **LED run**

400631	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:42 S. Uozumi **LED run**

400631	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:43 S. Uozumi **LED run**

400633	CmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:43 S. Uozumi **LED run**

400633	CmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:44 S. Uozumi **LED run**

400634	PmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:44 S. Uozumi **LED run**

400634	PmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-21 21:45 S. Uozumi **LED run**

400636	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:45 S. Uozumi **LED run**

400636	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:45 S. Uozumi **LED run**

400637	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:45 S. Uozumi **LED run**

400637	CmLed	LED		KNU fiber	2.5V		to see 1pe peak

2007-03-21 21:46 S. Uozumi **pedestal run**

400640	PmNoise	pedestal		KNU fiber	2.5V		Noise Run with 200k events

2007-03-21 21:46 S. Uozumi **pedestal run**

400640	PmNoise	pedestal		KNU fiber	2.5V		Noise Run with 200k events

2007-03-21 21:47 S. Uozumi **pedestal run**

400641	CmNoise	pedestal		KNU fiber	2.5V		Noise Run with 200k events

2007-03-21 21:47 S. Uozumi **pedestal run**

400641	CmNoise	pedestal		KNU fiber	2.5V		Noise Run with 200k events

2007-03-21 21:48 S. Uozumi **pedestal run**

400642	sceBeamHoldScan	T1L	3GeV	KNU fiber	2.5V	(25,20) detector center	holdscan to check holdtime with KNU module	

2007-03-21 21:48 S. Uozumi **pedestal run**

400642	sceBeamHoldScan	T1L	3GeV	KNU fiber	2.5V	(25,20) detector center	holdscan to check holdtime with KNU module	

2007-03-21 21:57 S.H Chang **Tungsten was inserted in the 3rd Configuration.**

Tungsten was inserted in the 3rd Configuration.

2007-03-21 22:00 S. Uozumi **3 GeV run**

400643	beam	T1L	3GeV	KNU fiber	2.5V	scanned	36 points scan	

2007-03-21 22:00 S. Uozumi **3 GeV run**

400643	beam	T1L	3GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-21 22:03 S. Uozumi **3 GeV run**

400644	beam	T1L	3GeV	KNU fiber	2.5V	scanned	36 points scan	

2007-03-21 22:03 S. Uozumi **3 GeV run**

400644	beam	T1L	3GeV	KNU fiber	2.5V	scanned	36 points scan	

2007-03-21 22:05 S. Uozumi **6 GeV run**

400647	beam	T1L	6GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-21 22:05 S. Uozumi **6 GeV run**

400647	beam	T1L	6GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-22 09:52 S. Uozumi **6 GeV run**

400648	beam	T1L	6GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-22 09:52 S. Uozumi **6 GeV run**

400648	beam	T1L	6GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-22 09:53 S. Uozumi **1 GeV run**

400649	beam	T1L	1GeV	KNU fiber	2.5V	scanned	36	

							9 10 scan	

starts with no good (positron) beam

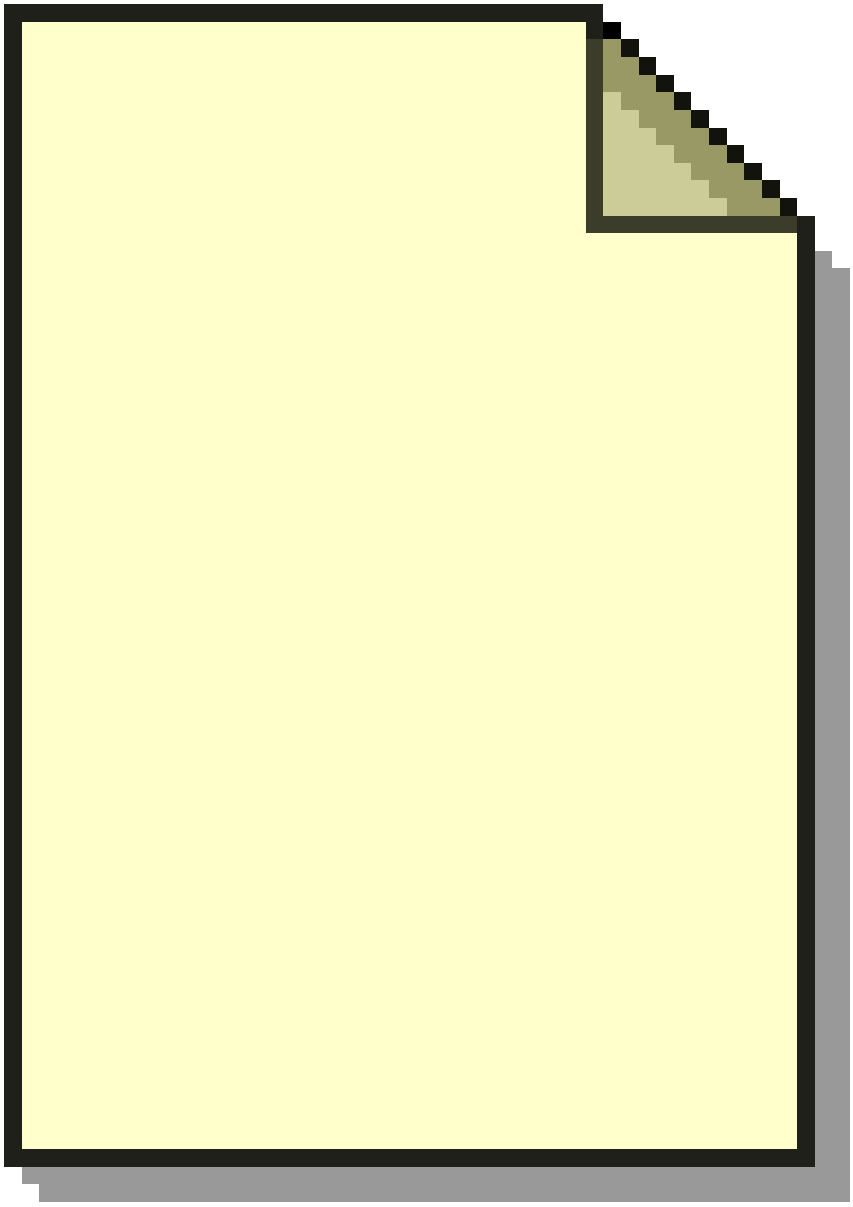
2007-03-22 09:53 S. Uozumi **1 GeV run**

400649	beam	T1L	1GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

starts with no good (positron) beam
Stopped. Useless data.

2007-03-22 10:08 S. Uozumi **slides for AHCAL meeting today**

This is the slides for status report of SCECAL BT at DESY AHCAL meeting.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/21.03/2007-03-22T10:08:28-01.ppt

2007-03-22 12:06 S. Uozumi **1 GeV run**

400650	beam	T1L	1GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-22 12:06 S. Uozumi **1 GeV run**

400650	beam	T1L	1GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-22 13:45 S. Uozumi **1 GeV run**

400651	beam	T1L	1GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-22 13:45 S. Uozumi **1 GeV run**

400651	beam	T1L	1GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-22 13:46 S. Uozumi **2 GeV run**

400653	beam	T1L	2GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-22 13:46 S. Uozumi **2 GeV run**

400653	beam	T1L	2GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-22 13:46 S. Uozumi **Just to remenber in Japan**

Here is a table of magnet current to set the beam energy.
(attached to the magnet control PC)

Energy(GeV)	Magnet current(A)
1.00	37.40
1.20	44.88
1.40	52.36
1.60	59.84
1.80	67.32
2.00	74.80
2.20	82.28
2.40	89.76
2.60	97.24
2.80	104.72
3.00	112.20
3.20	119.68
3.40	127.16
3.60	134.64
3.80	142.12
4.00	149.60
4.20	157.08
4.40	164.56
4.60	172.04
4.80	179.52
5.00	187.00
5.20	194.48
5.40	201.96
5.60	209.44
5.80	216.92
6.00	224.40

But since magnet control system can accept only integer current values,
we use following currents for our runs.

Energy(GeV)	Magnet current(A)
1	37
2	75
3	112
4	150
5	187
6	224

2007-03-22 15:18 S. Uozumi **2 GeV run**

400654	beam	T1L	2GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-22 15:18 S. Uozumi **3 GeV run**

400655	beam	T1L	3GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-22 15:30 S. Uozumi **3 GeV run**

400655	beam	T1L	3GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-22 15:30 S. Uozumi **3 GeV run**

400655	beam	T1L	3GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-22 16:43 S. Uozumi **3 GeV run**

400656	beam	T1L	3GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-22 16:43 S. Uozumi **3 GeV run**

400656	beam	T1L	3GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-22 17:36 S. Uozumi **4 GeV run**

400657	beam	T1L	4GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-22 17:36 S. Uozumi **4 GeV run**

400657	beam	T1L	4GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

Stopped at 45th points, so central injection is missed.

2007-03-22 23:07 S. Uozumi

After 7 pm there are only positron beams in DESY II.
I called to control room several times to have electron beam, but they said there are some problems on acclerator and after solving the problem they will work on HERA and DORIS injection.

So, we may not have the beam overnight.....

2007-03-22 23:14 S. Uozumi

Called again to control room after their shift change,
and they could give the 7GeV electron beam now, but due to linac problem, intensity (number of bunches)
is not high.
They will give us the high intensity beam as soon as the linac problem is solved.

2007-03-23 07:31 S. Uozumi **3 GeV run**

Eventually during almost of last night we had just positron beams in DESY II...
Called to control room again at the morning, they told that their work with positron beam will take some more hours...

2007-03-23 07:45 S. Uozumi **3 GeV run**

400658	beam	T1L	3GeV	KNU fiber	2.5V	scanned	9x9 points precise detector scan	

2007-03-23 07:45 S. Uozumi **3 GeV run**

400658	beam	T1L	3GeV	KNU fiber	2.5V	scanned	9x9	

							points precise detector scan	

with low intensity beam

2007-03-23 07:45 S. Uozumi **3 GeV run**

400659	beam	T1L	3GeV	KNU fiber	2.5V	scanned	9x9 points precise detector scan	

with low intensity beam

2007-03-23 07:45 S. Uozumi **3 GeV run**

400659	beam	T1L	3GeV	KNU fiber	2.5V	scanned	9x9 points precise detector scan	

2007-03-23 10:02 S. Uozumi **no beam today?**

Called to control room again, they told that there is a problem with HERA injection, no estimate to finish it...
I just asked them to give us a call when we can have the electron beam.
Running the LED run meanwhile.

2007-03-23 17:41 S. Uozumi **LED run**

400664	CmLedHoldScan	LED		KNU fiber	2.5V		holdscan to check holdtime with KNU module

7 tick is OK.

2007-03-23 17:41 S. Uozumi **LED run**

400666	CmLedHoldScan	LED		KNU fiber	2.5V		holdscan to check holdtime with KNU module

2007-03-23 17:41 S. Uozumi **LED run**

400665	PmLedHoldScan	LED		KNU fiber	2.5V		holdscan to check holdtime with KNU module

33 tick is OK.

2007-03-23 17:41 S. Uozumi **LED run**

400667	PmLedHoldScan	LED		KNU fiber	2.5V		holdscan to check holdtime with KNU module

2007-03-23 18:10 S. Uozumi **fantastic!**

Control room people are still working on the HERA injection problem, and they have no estimation to finish.
But Erika and Beni kindly called to control room and ask to tune one parameter to be optimum to the positron beam, and we now get higher rate (~300Hz with 3GeV) even with the 6GeV positron in DESY II!
Now we return to the beam data taking.
Thanks Erika, Beni !

2007-03-23 18:36 S. Uozumi **LED run**

400666	CmLed	LED		KNU fiber	2.5V		for inter-calibration of L12S15

2007-03-23 18:36	S. Uozumi	**LED run**					
400666	CmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-23 18:37	S. Uozumi	**LED run**					
400667	PmLed	LED		KNU fiber	2.5V		for inter-calibration of L12S15

2007-03-23 18:37	S. Uozumi	**LED run**					
400667	PmLed	LED		KNU fiber	2.5V		for inter-calibration

2007-03-23 18:38	S. Uozumi	**LED run**					
400670	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L12S14,15

2007-03-23 18:38	S. Uozumi	**LED run**					
400670	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L12S14,15

2007-03-23 18:39	S. Uozumi	**LED run**					
400672	CmLed	LED		KNU fiber	2.5V		for inter-calibration of L10S15

2007-03-23 18:39	S. Uozumi	**LED run**					
400672	CmLed	LED		KNU fiber	2.5V		for inter-calibration of L10S15

2007-03-23 18:39	S. Uozumi	**LED run**					
400673	PmLed	LED		KNU fiber	2.5V		for inter-calibration of L10S15

2007-03-23 18:39	S. Uozumi	**LED run**					
400673	PmLed	LED		KNU fiber	2.5V		for inter-calibration of L10S15

2007-03-23 18:40	S. Uozumi	**LED run**					
400675	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L10S15

2007-03-23 18:40	S. Uozumi	**LED run**					
400675	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L10S15

2007-03-23 18:41	S. Uozumi	**LED run**					
400679	CmLed	LED		KNU fiber	2.5V		for inter-calibration of L8S15

2007-03-23 18:41	S. Uozumi	**LED run**					
400679	CmLed	LED		KNU fiber	2.5V		for inter-calibration of L8S15

2007-03-23 18:41	S. Uozumi	**LED run**					
400680	PmLed	LED		KNU fiber	2.5V		for inter-calibration of L8S15

2007-03-23 18:41	S. Uozumi	**LED run**					
400680	PmLed	LED		KNU fiber	2.5V		for inter-calibration of L8S15

2007-03-23 18:42	S. Uozumi	**LED run**					
400682	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L8S15

2007-03-23 18:42	S. Uozumi	**LED run**					
400682	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L8S15

2007-03-23 18:42	S. Uozumi	**LED run**					
400683	CmLed	LED		KNU fiber	3.5V		to see 1pe peak at L8S15

2007-03-23 18:42	S. Uozumi	**LED run**					
400683	CmLed	LED		KNU fiber	3.5V		to see 1pe peak at L8S15

2007-03-23 18:43	S. Uozumi	**LED run**					
400685	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L8S14

2007-03-23 18:43	S. Uozumi	**LED run**					
400685	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L8S14

2007-03-23 18:44	S. Uozumi	**LED run**					
400689	CmLed	LED		KNU fiber	2.5V		for inter-calibration of L4S15

2007-03-23 18:44	S. Uozumi	**LED run**					
400689	CmLed	LED		KNU fiber	2.5V		for inter-calibration of L4S15

2007-03-23 18:44	S. Uozumi	**LED run**					
400690	PmLed	LED		KNU fiber	2.5V		for inter-calibration of L4S15

2007-03-23 18:44	S. Uozumi	**LED run**					
400690	PmLed	LED		KNU fiber	2.5V		for inter-calibration of L4S15

2007-03-23 18:45	S. Uozumi	**LED run**					
400692	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L4S14,15

2007-03-23 18:45	S. Uozumi	**LED run**					
400692	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L4S14,15

2007-03-23 18:46	S. Uozumi	**LED run**					
400697	CmLed	LED		KNU fiber	2.5V		for inter-calibration of L2S15

2007-03-23 18:46	S. Uozumi	**LED run**					
400697	CmLed	LED		KNU fiber	2.5V		for inter-calibration of L2S15

2007-03-23 18:46	S. Uozumi	**LED run**					
400698	PmLed	LED		KNU fiber	2.5V		for inter-calibration of L2S15

2007-03-23 18:46	S. Uozumi	**LED run**					
400698	PmLed	LED		KNU fiber	2.5V		for inter-calibration of L2S15

2007-03-23 18:47	S. Uozumi	**LED run**					
400700	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L2S14,15

2007-03-23 18:47	S. Uozumi	**LED run**					
400700	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L2S14,15

2007-03-23 18:48	S. Uozumi	**LED run**					
400706	CmLed	LED		KNU fiber	2.5V		for inter-calibration of L6S14

2007-03-23 18:48	S. Uozumi	**LED run**					
400706	CmLed	LED		KNU fiber	2.5V		for inter-calibration of L6S14

2007-03-23 18:48	S. Uozumi	**LED run**					
400707	PmLed	LED		KNU fiber	2.5V		for inter-calibration of L6S14

2007-03-23 18:48	S. Uozumi	**LED run**					
400707	PmLed	LED		KNU fiber	2.5V		for inter-calibration of L6S14

2007-03-23 18:49	S. Uozumi	**LED run**					
400709	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L6S14,15

2007-03-23 18:49	S. Uozumi	**LED run**					
400709	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L6S14,15

2007-03-23 18:49	S. Uozumi	**LED run**					
400710	CmLed	LED		KNU fiber	2.5V		for inter-calibration of L24S15

2007-03-23 18:49	S. Uozumi	**LED run**					
400710	CmLed	LED		KNU fiber	2.5V		for inter-calibration of L24S15

2007-03-23 18:50	S. Uozumi	**LED run**					
400715	CmLed	LED		KNU fiber	2.5V		for inter-calibration of L25S15

2007-03-23 18:50	S. Uozumi	**LED run**					
400715	CmLed	LED		KNU fiber	2.5V		for inter-calibration of L25S15

2007-03-23 18:51	S. Uozumi	**LED run**					
400716	PmLed	LED		KNU fiber	2.5V		for inter-calibration of L25S15

2007-03-23 18:51	S. Uozumi	**LED run**					
400716	PmLed	LED		KNU fiber	2.5V		for inter-calibration of L25S15

2007-03-23 18:51	S. Uozumi	**LED run**					
400718	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at

							L25S15

2007-03-23 18:51 S. Uozumi **LED run**

400718	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L25S15

2007-03-23 18:52 S. Uozumi **LED run**

400719	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L25S14

2007-03-23 18:52 S. Uozumi **LED run**

400719	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L25S14

2007-03-23 18:52 S. Uozumi **LED run**

400721	CmLed	LED		KNU fiber	2.5V		for inter-calibration of L26S15

2007-03-23 18:52 S. Uozumi **LED run**

400721	CmLed	LED		KNU fiber	2.5V		for inter-calibration of L26S15

2007-03-23 18:53 S. Uozumi **LED run**

400723	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L26S15

2007-03-23 18:53 S. Uozumi **LED run**

400723	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L26S15

2007-03-23 18:53 S. Uozumi **LED run**

400724	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L26S14,16

2007-03-23 18:53 S. Uozumi **LED run**

400724	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L26S14,16

2007-03-23 18:54 S. Uozumi **LED run**

400725	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L14S15

2007-03-23 18:54 S. Uozumi **LED run**

400725	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L14S15

2007-03-23 18:55 S. Uozumi **LED run**

400726	CmLed	LED		KNU fiber	3.5V		same with previous run but with increased over-voltage

2007-03-23 18:55 S. Uozumi **LED run**

400726	CmLed	LED		KNU fiber	3.5V		same with previous run but with increased over-voltage

2007-03-23 18:56 S. Uozumi **LED run**

400728	CmLed	LED		KNU fiber	2.5V		to see 1pe peak in neighboring strip of L8S15, but pedestal too wide?

2007-03-23 18:56 S. Uozumi **LED run**

400728	CmLed	LED		KNU fiber	2.5V		to see 1pe peak in neighboring strip of L8S15, but pedestal too wide?

2007-03-23 18:56 S. Uozumi **LED run**

400729	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L15S15

2007-03-23 18:56 S. Uozumi **LED run**

400729	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L15S15

2007-03-23 18:57 S. Uozumi **LED run**

400730	CmLed	LED		KNU fiber	3.5V		same with previous run but with increased over-voltage

2007-03-23 18:57 S. Uozumi **LED run**

400730	CmLed	LED		KNU fiber	3.5V		same with previous run but with increased over-voltage

2007-03-23 18:57	S. Uozumi	**LED run**					
400731	CmLed	LED		KNU fiber	2.5V		to see 1pe peak in neighboring strip of L15S15, but pedestal too wide?

2007-03-23 18:57	S. Uozumi	**LED run**					
400731	CmLed	LED		KNU fiber	2.5V		to see 1pe peak in neighboring strip of L15S15

2007-03-23 18:58	S. Uozumi	**LED run**					
400732	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L16S15

2007-03-23 18:58	S. Uozumi	**LED run**					
400732	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L16S15

2007-03-23 18:58	S. Uozumi	**LED run**					
400733	CmLed	LED		KNU fiber	3.5V		same with previous run but with increased over-voltage

2007-03-23 18:58	S. Uozumi	**LED run**					
400733	CmLed	LED		KNU fiber	3.5V		same with previous run but with increased over-voltage

2007-03-23 18:59	S. Uozumi	**LED run**					
400734	CmLed	LED		KNU fiber	2.5V		to see 1pe peak in neighboring strip of L16S15, but pedestal too wide?

2007-03-23 18:59	S. Uozumi	**LED run**					
400734	CmLed	LED		KNU fiber	2.5V		to see 1pe peak in neighboring strip of L16S15

2007-03-23 19:00	S. Uozumi	**LED run**					
400735	CmLed	LED		KNU fiber	2.5V		to see 1pe

							peak at L16S15

2007-03-23 19:00		S. Uozumi		**LED run**			
400735	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L16S15

2007-03-23 19:00		S. Uozumi		**LED run**			
400736	CmLed	LED		KNU fiber	3.5V		same with previous run but with increased over-voltage

2007-03-23 19:00		S. Uozumi		**LED run**			
400736	CmLed	LED		KNU fiber	3.5V		same with previous run but with increased over-voltage

2007-03-23 19:00		S. Uozumi		**LED run**			
400737	CmLed	LED		KNU fiber	2.5V		to see 1pe peak in neighboring strip of L18S15

2007-03-23 19:00		S. Uozumi		**LED run**			
400737	CmLed	LED		KNU fiber	2.5V		to see 1pe peak in neighboring strip of L18S15, but pedestal too wide?

2007-03-23 19:01		S. Uozumi		**LED run**			
400738	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L17S15,14

2007-03-23 19:01		S. Uozumi		**LED run**			
400738	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L17S15

2007-03-23 19:02		S. Uozumi		**LED run**			
400739	CmLed	LED		KNU fiber	3.5V		same with previous run but with increased over-voltage

2007-03-23 19:02		S. Uozumi		**LED run**			
400739	CmLed	LED		KNU fiber	3.5V		same with

							previous run but with increased over-voltage

2007-03-23 19:03 S. Uozumi **LED run**

400740	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L19S15

2007-03-23 19:03 S. Uozumi **LED run**

400740	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L19S15

2007-03-23 19:03 S. Uozumi **LED run**

400741	CmLed	LED		KNU fiber	3.5V		same with previous run but with increased over-voltage

2007-03-23 19:03 S. Uozumi **LED run**

400741	CmLed	LED		KNU fiber	3.5V		same with previous run but with increased over-voltage

2007-03-23 19:04 S. Uozumi **LED run**

400742	CmLed	LED		KNU fiber	2.5V		to see 1pe peak in neighboring strip of L19S15, but pedestal too wide?

2007-03-23 19:04 S. Uozumi **LED run**

400742	CmLed	LED		KNU fiber	2.5V		to see 1pe peak in neighboring strip of L19S15, but pedestal too wide?

2007-03-23 19:05 S. Uozumi **LED run**

400743	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L20S15

2007-03-23 19:05 S. Uozumi **LED run**

400743	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L20S15

2007-03-23 19:05 S. Uozumi **LED run**

400744	CmLed	LED		KNU fiber	3.5V		same with previous run but with increased over-voltage

2007-03-23 19:05 S. Uozumi **LED run**

400744	CmLed	LED		KNU fiber	3.5V		same with previous run but with increased over-voltage

2007-03-23 19:06 S. Uozumi **LED run**

400745	CmLed	LED		KNU fiber	2.5V		to see 1pe peak in neighboring strip of L20S15

2007-03-23 19:06 S. Uozumi **LED run**

400745	CmLed	LED		KNU fiber	2.5V		to see 1pe peak in neighboring strip of L20S15

2007-03-23 19:07 S. Uozumi **LED run**

400747	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L22S15

2007-03-23 19:07 S. Uozumi **LED run**

400747	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L22S15

2007-03-23 19:07 S. Uozumi **LED run**

400748	CmLed	LED		KNU fiber	3.5V		same with previous run but with increased over-voltage

2007-03-23 19:07 S. Uozumi **LED run**

400748	CmLed	LED		KNU fiber	3.5V		same with previous run but with increased over-voltage

2007-03-23 19:08 S. Uozumi **LED run**

400749	CmLed	LED		KNU fiber	2.5V		to see 1pe peak in neighboring strip of L22S15

2007-03-23 19:08	S. Uozumi	**LED run**					
400749	CmLed	LED		KNU fiber	2.5V		to see 1pe peak in neighboring strip of L22S15

2007-03-23 19:08	S. Uozumi	**LED run**					
400750	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L21S15

2007-03-23 19:08	S. Uozumi	**LED run**					
400750	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L21S15

2007-03-23 19:09	S. Uozumi	**LED run**					
400751	CmLed	LED		KNU fiber	3.5V		same with previous run but with increased over-voltage

2007-03-23 19:09	S. Uozumi	**LED run**					
400751	CmLed	LED		KNU fiber	3.5V		same with previous run but with increased over-voltage

2007-03-23 19:09	S. Uozumi	**LED run**					
400752	CmLed	LED		KNU fiber	2.5V		to see 1pe peak in neighboring strip of L21S15

2007-03-23 19:09	S. Uozumi	**LED run**					
400752	CmLed	LED		KNU fiber	2.5V		to see 1pe peak in neighboring strip of L21S15

2007-03-23 19:10	S. Uozumi	**LED run**					
400753	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L23S15

2007-03-23 19:10	S. Uozumi	**LED run**					
400753	CmLed	LED		KNU fiber	2.5V		to see 1pe peak at L23S15

2007-03-23 19:11	S. Uozumi	**LED run**					
400754	CmLed	LED		KNU fiber	3.5V		same with previous run but with increased over-voltage

2007-03-23 19:11	S. Uozumi	**LED run**					
400754	CmLed	LED		KNU fiber	3.5V		same with previous run but with increased over-voltage

2007-03-23 19:11	S. Uozumi	**LED run**					
400755	CmLed	LED		KNU fiber	2.5V		to see 1pe peak in neighboring strip of L23S15

2007-03-23 19:11	S. Uozumi	**LED run**					
400755	CmLed	LED		KNU fiber	2.5V		to see 1pe peak in neighboring strip of L23S15

2007-03-23 19:12	S. Uozumi	**pedestal run**					
400756	CmNoise	pedestal		KNU fiber	2.5V		CmNoise with LED on

2007-03-23 19:12	S. Uozumi	**pedestal run**					
400756	CmNoise	pedestal		KNU fiber	2.5V		CmNoise with LED on

2007-03-23 19:12	S. Uozumi	**pedestal run**					
400757	PmNoise	pedestal		KNU fiber	2.5V		PmNoise with LED on

2007-03-23 19:12	S. Uozumi	**pedestal run**					
400757	PmNoise	pedestal		KNU fiber	2.5V		PmNoise with LED on

2007-03-23 19:13	S. Uozumi	**pedestal run**					
400759	PmNoise	pedestal		KNU fiber	2.5V		CmNoise with LED off

2007-03-23 19:13	S. Uozumi	**pedestal run**					
400759	CmNoise	pedestal		KNU fiber	2.5V		CmNoise with LED off

2007-03-23 19:14	S. Uozumi	**LED run**					
400760	CmNoise	pedestal		KNU fiber	2.5V		CmNoise with LED off

2007-03-23 19:14 S. Uozumi **LED run**

400760	CmNoise	pedestal		KNU fiber	2.5V		CmNoise with LED off

2007-03-23 19:15 S. Uozumi **5 GeV run**

400765	beam	T1L	5GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-23 19:15 S. Uozumi **5 GeV run**

400765	beam	T1L	5GeV	KNU fiber	2.5V	scanned	36 points scan	

with positron beam, DAQ rate ~ 40Hz

2007-03-23 21:23 S. Uozumi **3 GeV run**

400767	beam	T1L	3GeV	KNU fiber	2.5V	scanned	9x9 points precise detector scan	

with positron beam, DAQ rate is ~120Hz

2007-03-23 21:23 S. Uozumi **3 GeV run**

400767	beam	T1L	3GeV	KNU fiber	2.5V	scanned	9x9 points precise detector scan	

with positron beam, DAQ rate is ~120Hz

2007-03-24 09:21 S. Uozumi **3 GeV run**

400768	beam	T1L	3GeV	KNU fiber	2.5V	scanned	9x9 points precise detector scan	

2007-03-24 09:21 S. Uozumi **3 GeV run**

400768	beam	T1L	3GeV	KNU fiber	2.5V	scanned	9x9 points precise detector scan	

2007-03-24 09:22 S. Uozumi **3 GeV run**

400769	beam	T1L	3GeV	KNU fiber	2.5V	scanned	9x9 points precise detector scan	

2007-03-24 09:22 S. Uozumi **3 GeV run**

400769	beam	T1L	3GeV	KNU fiber	2.5V	scanned	9x9 points precise detector scan	

2007-03-24 09:22 S. Uozumi **3 GeV run**

400770	beam	T1L	3GeV	KNU fiber	2.5V	scanned	9x9 points precise detector scan	

2007-03-24 09:22 S. Uozumi **3 GeV run**

400770	beam	T1L	3GeV	KNU fiber	2.5V	scanned	9x9 points precise detector scan	

2007-03-24 09:37 S. Uozumi **4 GeV run**

400772	beam	T1L	4GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-24 09:37 S. Uozumi **4 GeV run**

400772	beam	T1L	4GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-24 12:47 S. Uozumi **4 GeV run**

400773	beam	T1L	4GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-24 12:47 S. Uozumi **4 GeV run**

400773	beam	T1L	4GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-24 13:30 S. Uozumi **Electron beam, long time no see**

We got a call from control room, they are still working on the HERA injectin problem,
but for a moment they switched to the electron mode just to give us a nice beam!
But they are not sure how long we can have the beam, the DESY-II may back to the positron beam mode very soon.
DAQ rate ~130 Hz with 4 GeV beam.

2007-03-24 13:43 S. Uozumi **5 GeV run**

400774	beam	T1L	5GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-24 13:43 S. Uozumi **5 GeV run**

400774	beam	T1L	5GeV	KNU fiber	2.5V	scanned	36 9 10 scan	

2007-03-24 17:23 S. Uozumi **5 GeV run**

400775	beam	T1L	5GeV	KNU fiber	2.5V	scanned	36 9 10 position scan	

2007-03-24 17:23 S. Uozumi **5 GeV run**

400775	beam	T1L	5GeV	KNU fiber	2.5V	scanned	36 9 10 position scan	

2007-03-24 18:43 S. Uozumi **3 GeV run**

400777	beam	T1L	3GeV	KNU fiber	2.5V	scanned	5x20 points precise scan for X-layer strips 5	

							14 to see position dependence	

2007-03-24 18:43 S. Uozumi **3 GeV run**

400777	beam	T1L	3GeV	KNU fiber	2.5V	scanned	5x20 points precise scan for X-layer strips 5 14 to see position dependence	

2007-03-25 10:10 S. Uozumi **overnight runs**

Runs 400777-400781 are 5x20 precise scan overnight.
Run 400782 was stopped around 50th point.

2007-03-25 10:49 S.Chang et al. **3rd-config. removed tunsten**

We have removed tungsten plates from detector.

2007-03-25 10:51 S.Chang et al. **[3rd-config.] Responce of KNU modules , Calibration Run /+3.7V/**

Changing overvoltage(+3.7V) gave improvement. ~ 55.4% (for +2.9V, it was 41.4%)
But, KNU Modules response is still lower than Kuraray fiber coupling modules.

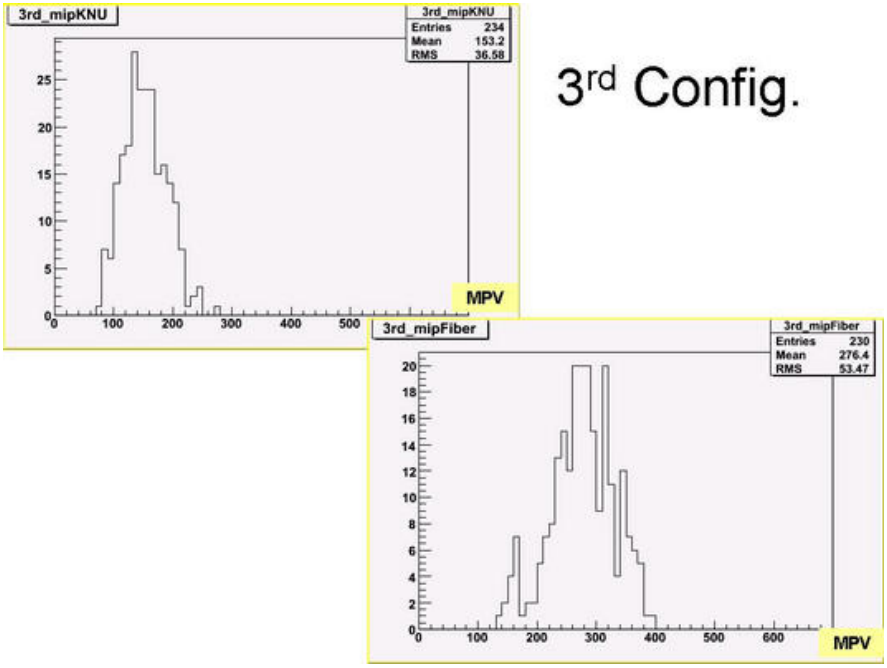
55.4% = (153.2 / 276.4) *100

•** informations of data **

Calibration Run : 400543 (2nd Calibation Run for KNU module)
Run type : Calibration Run w/o Tungsten
Beam Energy : 3GeV
overvoltage for KNU modules : 3.7 V

Layer 1 ~ Layer 13 -> KNU
Layer 14 ~ Layer 26 -> Kuraray fiber coupling

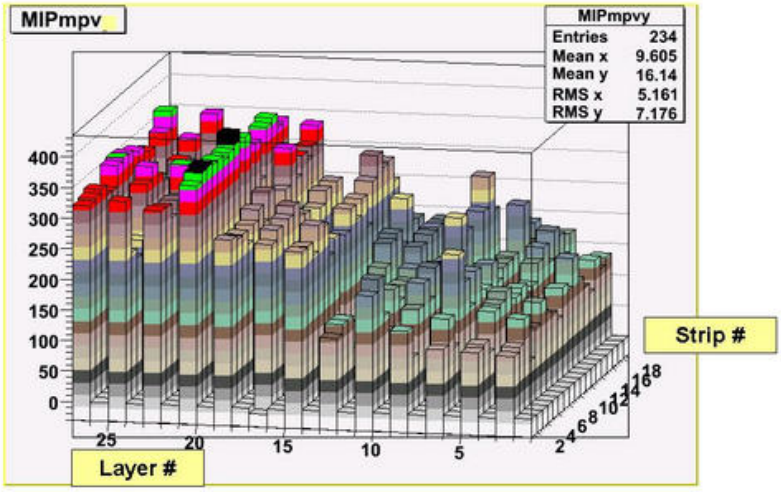
odd number layer -> Y layer
event number layer -> X layer



File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/25.03/2007-03-25T10:51:37-01.JPG

2007-03-25 10:53 S.Chang et al. **Responce of KNU modules , Calibration Run /+3.7V/**

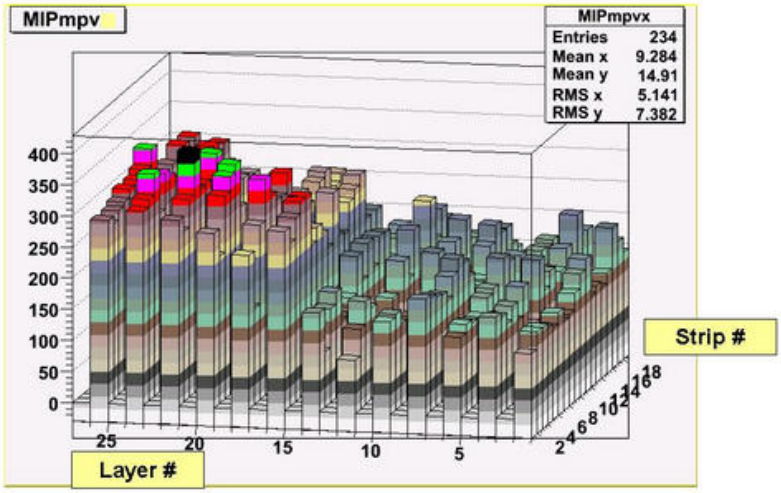
3rd Config. 500543 (3.7V) X



File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/25.03/2007-03-25T10:53:23-00.JPG

2007-03-25 10:54 S.Chang et al. **Responce of KNU modules , Calibration Run /+3.7V/**

3rd Config. 500543 (3.7V) Y



File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/25.03/2007-03-25T10:54:19-00.jpg

2007-03-25 11:00 S.Chang et al. **[3rd-config]Report of results Before preliminary**

It's a report about KNU modules(3rd configuration), linearity and resolution.

Beam energies are 1GeV 2GeV 3GeV 4GeV 6GeV, all five. each beam run has two datas(two run number)

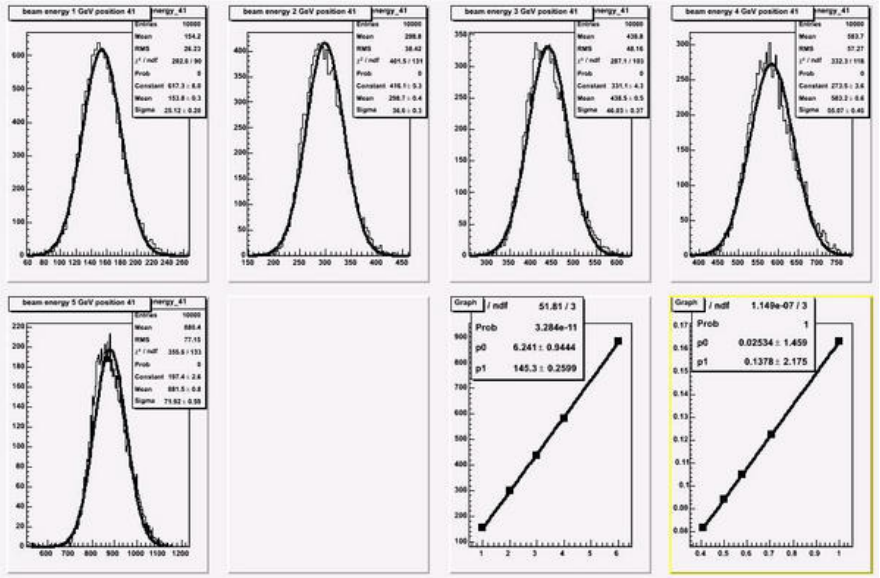
It was results before getting 5GeV data.

Even 4GeV run data is not complete data, center injection(10 times) missing among 55 points.

Total 55 points =
(36 points to center of each strips + 9 points to center area of detector + 10 times of center injection.)

This energy histograms is from 41th point which is center position among center area scan.

It means It is almost center injection.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/25.03/2007-03-25T11:00:36-00.JPG

2007-03-25 11:46	S. Uozumi	**MIP calibration**						
400784	beam	T1L	3GeV	KNU fiber	2.5V	scanned	36 points scan for MIP calibration	

2007-03-25 11:46	S. Uozumi	**MIP calibration**						
400784	beam	T1L	3GeV	KNU fiber	2.5V	scanned	36 points scan for MIP calibration	

2007-03-25 11:50 S. Uozumi **ntuples for analysis**

I've almost finished to copy beamtest ntuples to Japan.
Temporary the data are put on my desktop at Shinshu, so if you are
interested in looking the data
 please let me know.
Then I will make your temporary account on my desktop.
After flcscecalana arrives to Japan, it will be the data storage place and
analysis server.

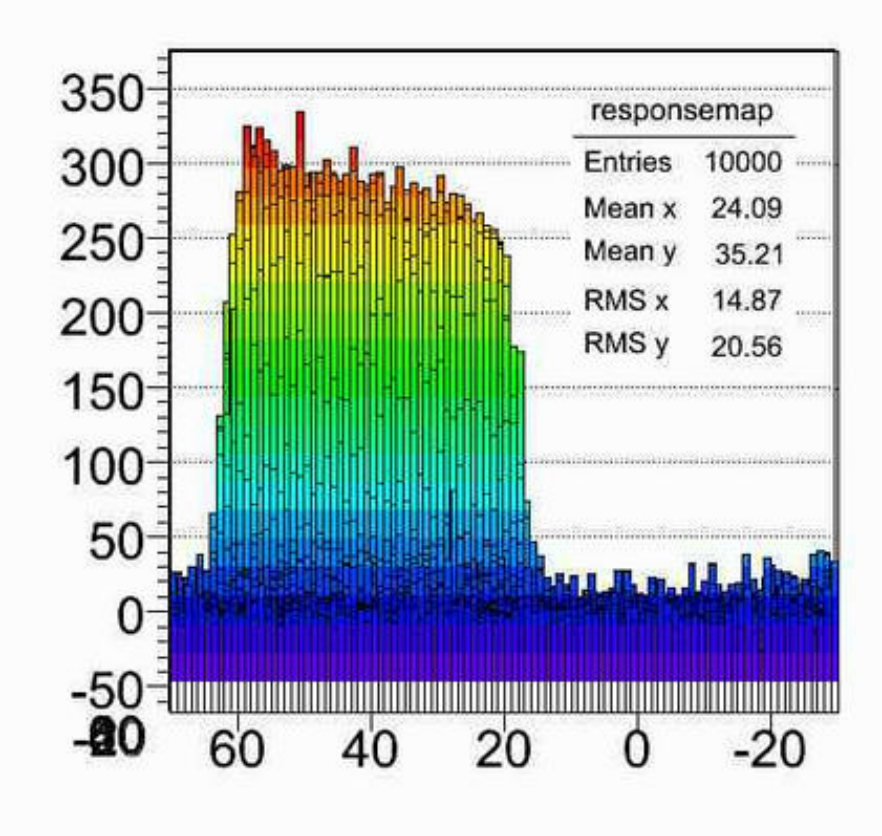
The data are found at,
pcatl02.shinshu-u.ac.jp:/BT_data/newtrees/v1_0
The root files contain ntuple which name of event_data.
Here I will briefly write about available parameters:
runNumber,eventNumber ... not necessary to explain.
config ... shows which scanning point we are.
           (int)config/3 will give position number of the stage scan,
starts from zero.
date, time,microsec ... format of date is mmdd, and format of time is hhmmss.
temperature ... not implemented yet.
stagePositionX, stagePositionY ... Position of the movable stage. Since
the stage position is already involved to the trackXPos and trackYPos,
normally you will not need to use stage position information.
trackXPos,trackYPos ... Position of the beam on surface of the SCECAL,
calculated from tracking and stage position information.
trackXSlope, trackYSlope ... slope of a track
trackXHitMap, trackYHitMap ... hitmap of the drift chamber X and Y wires.
trackXChisq, trackYChisq ... Chisquare of the tracking.
ADC[layerID-1][stripID-1] ... ADC counts for each channel. For the beam
data, pedestal is already subtracted.
ADC_xxx ... ADC counts for trigger and veto counters.
xxx=T1R,T2R,T3L,V1U,V1D,V2D.
TDC ... raw TDC counts, normally not necessary.

Since it does not contain temperature information and tracking is
necessary to be improved,
there will be updates of the ntuples after the beam test.

But anyway for first analysis these data are already useful.

2007-03-25 12:31 S. Uozumi **uniformity of fiber readout module**

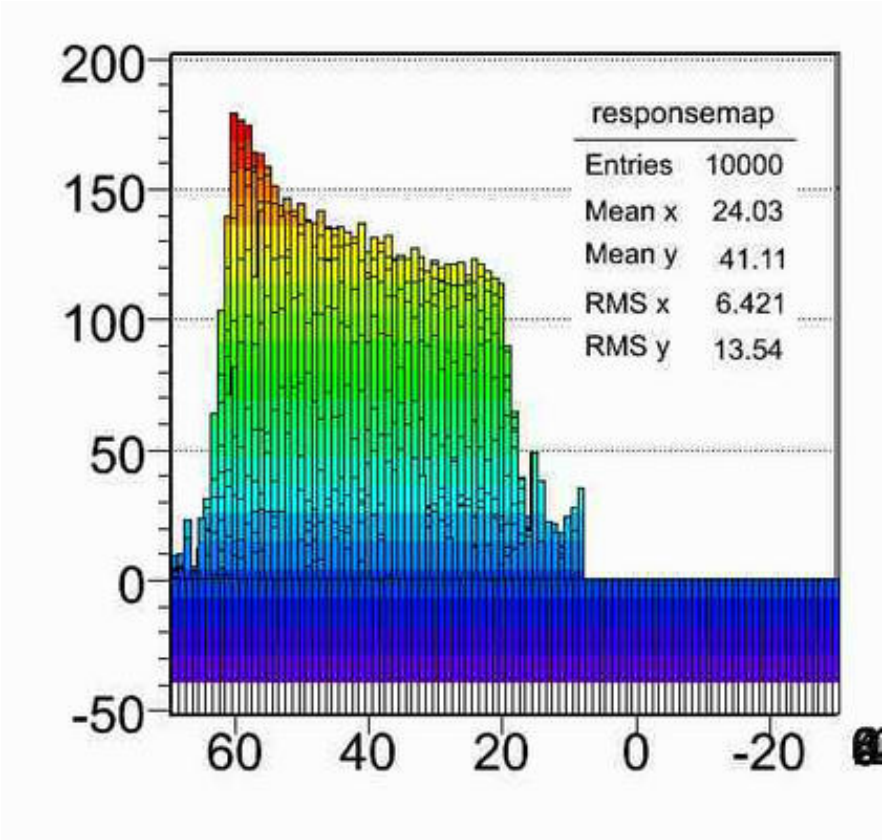
This shows uniformity of light yield with a fiber readout strip, measured with MIP events.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/25.03/2007-03-25T12:31:12-00.jpg

2007-03-25 12:34 S. Uozumi **uniformity of direct readout module**

... and this shows uniformity of light yield with a direct readout strip.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/25.03/2007-03-25T12:34:11-00.jpg

2007-03-25 15:19 S. Uozumi **MIP calibration**

400785	beam	T1L	3GeV	KNU fiber	2.5V	scanned	36 points scan for MIP calibration	

2007-03-25 15:19 S. Uozumi **MIP calibration**

400785	beam	T1L	3GeV	KNU fiber	2.5V	scanned	36 points scan for MIP calibration	

2007-03-25 15:19 S. Uozumi **MIP calibration**

400786	beam	T1L	3GeV	KNU fiber	2.5V	scanned	36 points scan for MIP calibration	

2007-03-25 15:19 S. Uozumi **MIP calibration**

400786	beam	T1L	3GeV	KNU fiber	2.5V	scanned	36 points scan for MIP calibration	

2007-03-25 15:20 S. Uozumi

Switched to one-strip precise scanning.

2007-03-25 15:22 S. Uozumi **MIP run**

400788	beam	T1L	3GeV	KNU fiber	2.5V	scanned	3x10	

							one-strip precise scan	

2007-03-25 15:22 S. Uozumi **MIP run**

400788	beam	T1L	3GeV	KNU fiber	2.5V	scanned	3x10 one-strip precise scan	

2007-03-25 19:36 S. Uozumi

Runs 400788-400794 are precise one-strip scan.

2007-03-25 19:43 S. Uozumi **over-voltage for fiber module changed**

The DAC setting for fiber readout module has been changed from +0.4V to +1.2V to directly compare light yield between fiber readout and extrusion modules.
DAC files have suffix of LYcompare.

2007-03-25 19:45 S. Uozumi **MIP run**

400796	beam	T1L	3GeV	KNU fiber	2.5V	scanned	9x9 precise detector scan	

2007-03-25 19:45 S. Uozumi **MIP run**

400796	beam	T1L	3GeV	KNU fiber	2.5V	scanned	9x9 precise detector scan	

2007-03-25 23:14 S. Uozumi **tuning MIP selection and fit for calibration constant**

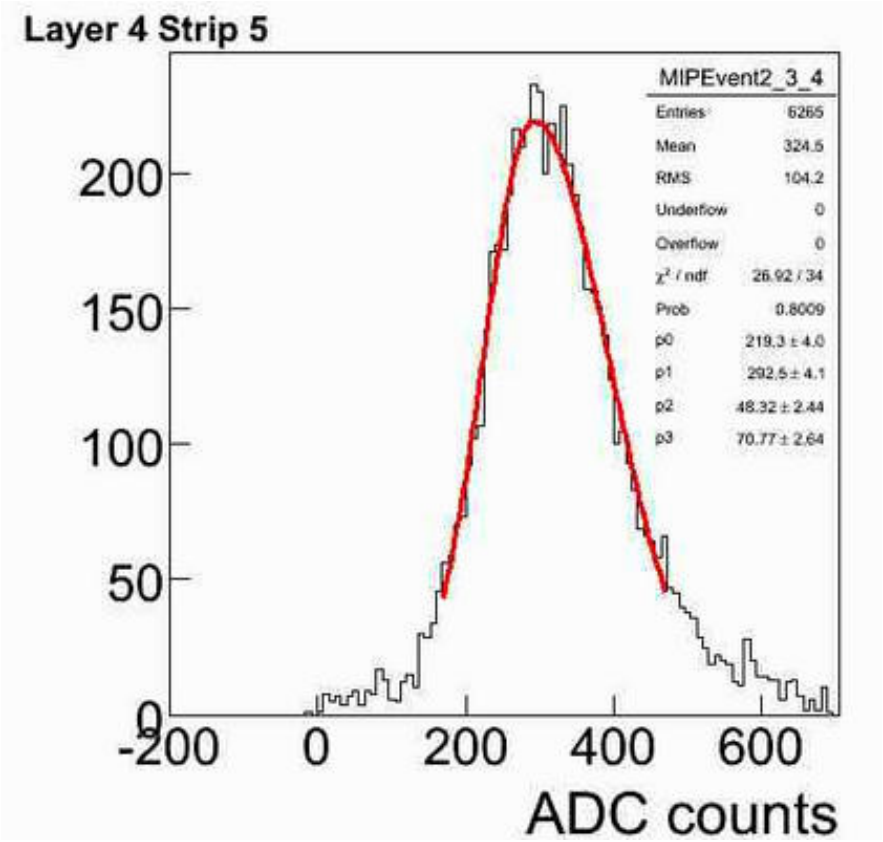
I"ve tried to optimize MIP selection and fitting to obtain calibration constant.
In addition to the Daniel's cuts, I apply following additional cuts:

T1R,T2R, have signal consistent with 1 MIP
V1U, V1D, V2D have signal consistent with pedestal
Other strips in a same layer with the targer strip have signal consistent with pedestal

Latter 2 cuts reduce upper tails of MIP distribution, which may come from shower events.
(Such large upper tail by shower events are significant for downstream layers.
Even without tungsten, positron sometimes occurs small EM shower in MIP runs.)

One note for MIP events:
Even with such MIP selection, there are some events consistent with pedestal.
Those events are observed especially at the first-part layers (layer 1,2,3..).
I think it may happen since for those layers we can not require signal on upper-stream layers.
If we want to kill those pedestal MIP events, I think tracking information is necessary.
For now I limit the fitting region to avoid such events.

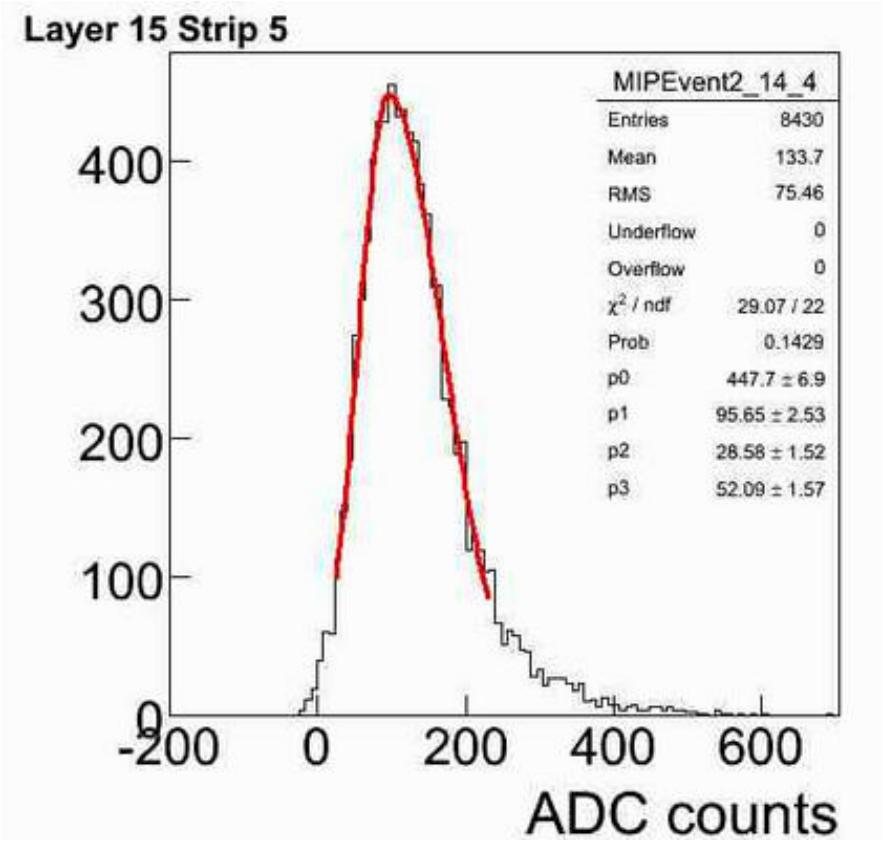
Then I tried to use several types of functions to find the MIP peak position.
As a couclusion of a short study, it is found that fitting with assymetric gaussian within a certain region gives good fit (small chisquare).
I believe we can find better function than the asymmetric gaussian, then we can fit wider region and reduce statistical uncertainty, but for now I adopt this function.
I will attach some plots for MIP fits.
This is for a fiber-readout strip.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/25.03/2007-03-25T23:14:43-00.jpg

2007-03-25 23:21 S. Uozumi

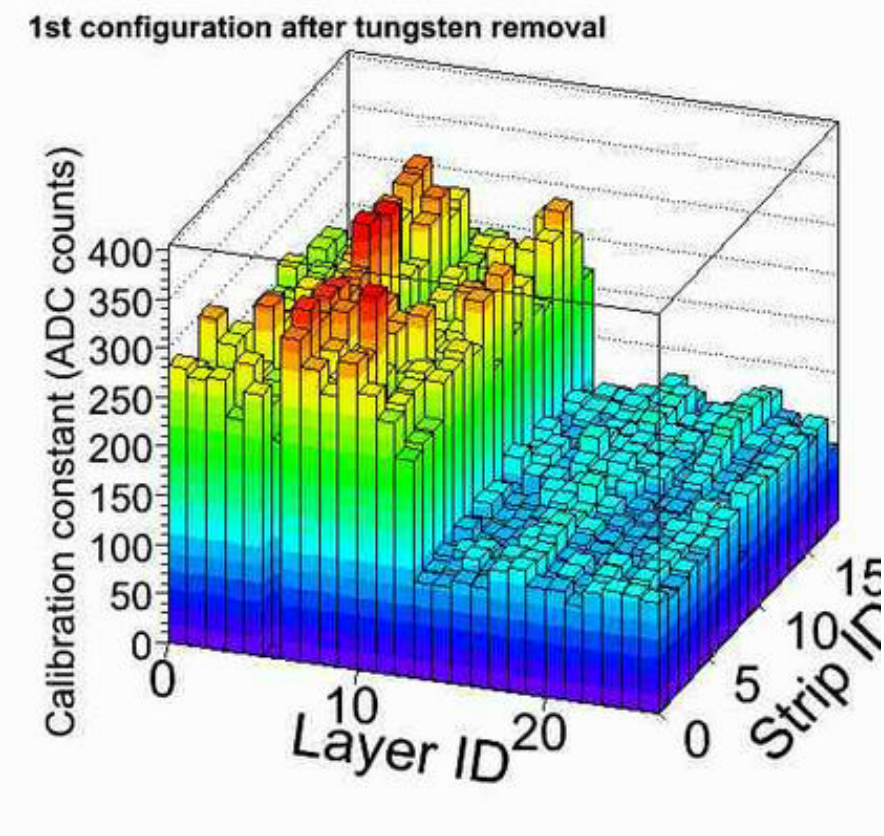
And this is a fit result for a direct readout strip.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/25.03/2007-03-25T23:21:08-00.jpg

2007-03-25 23:23 S. Uozumi

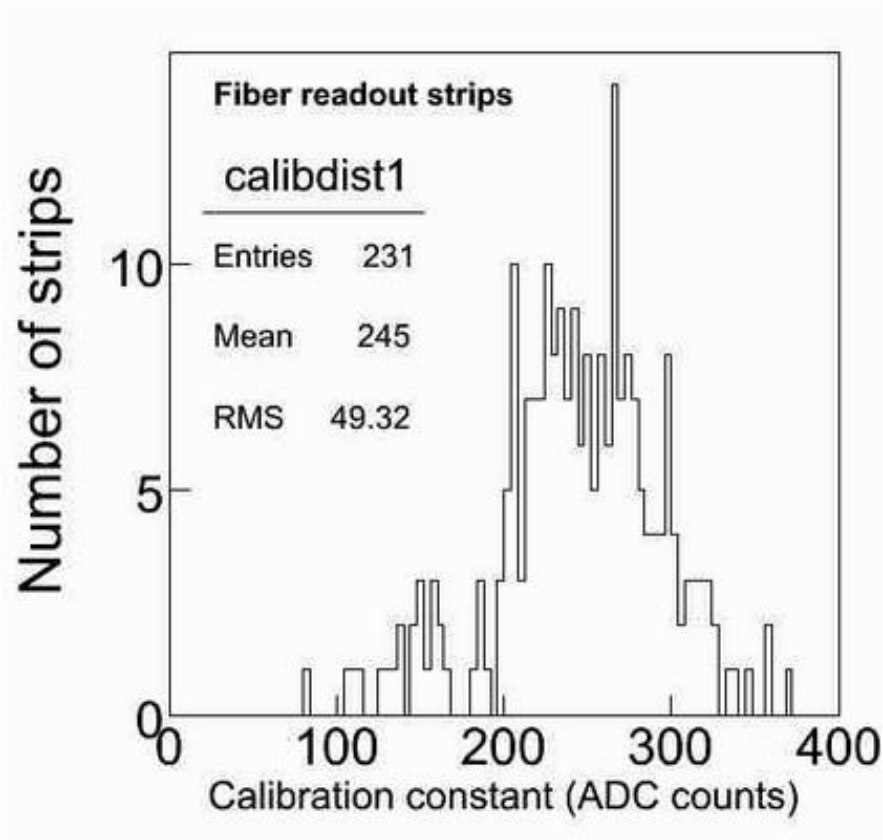
This is a mapping of the obtained calibration constant for 1st configuration.
MIP calibration runs after tungsten removal are used for this result.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/25.03/2007-03-25T23:23:38-00.jpg

2007-03-25 23:24 S. Uozumi

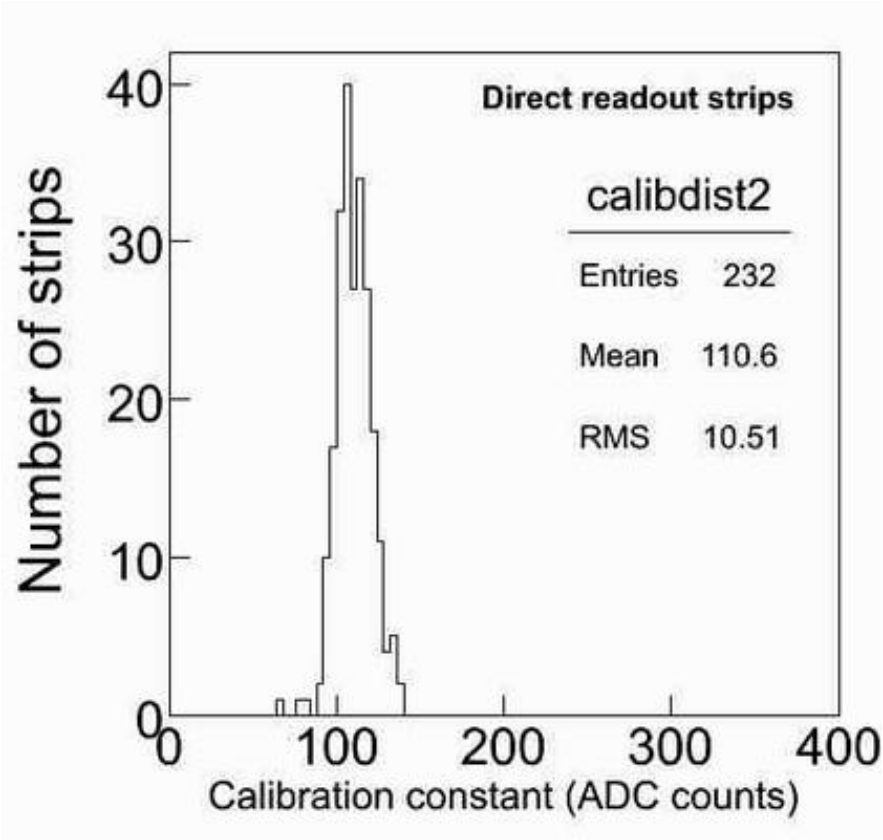
This is a distribution of calibration constant for fiber readout module...
3 dead channels are not filled in this plot.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/25.03/2007-03-25T23:24:34-00.jpg

2007-03-25 23:25 S. Uozumi

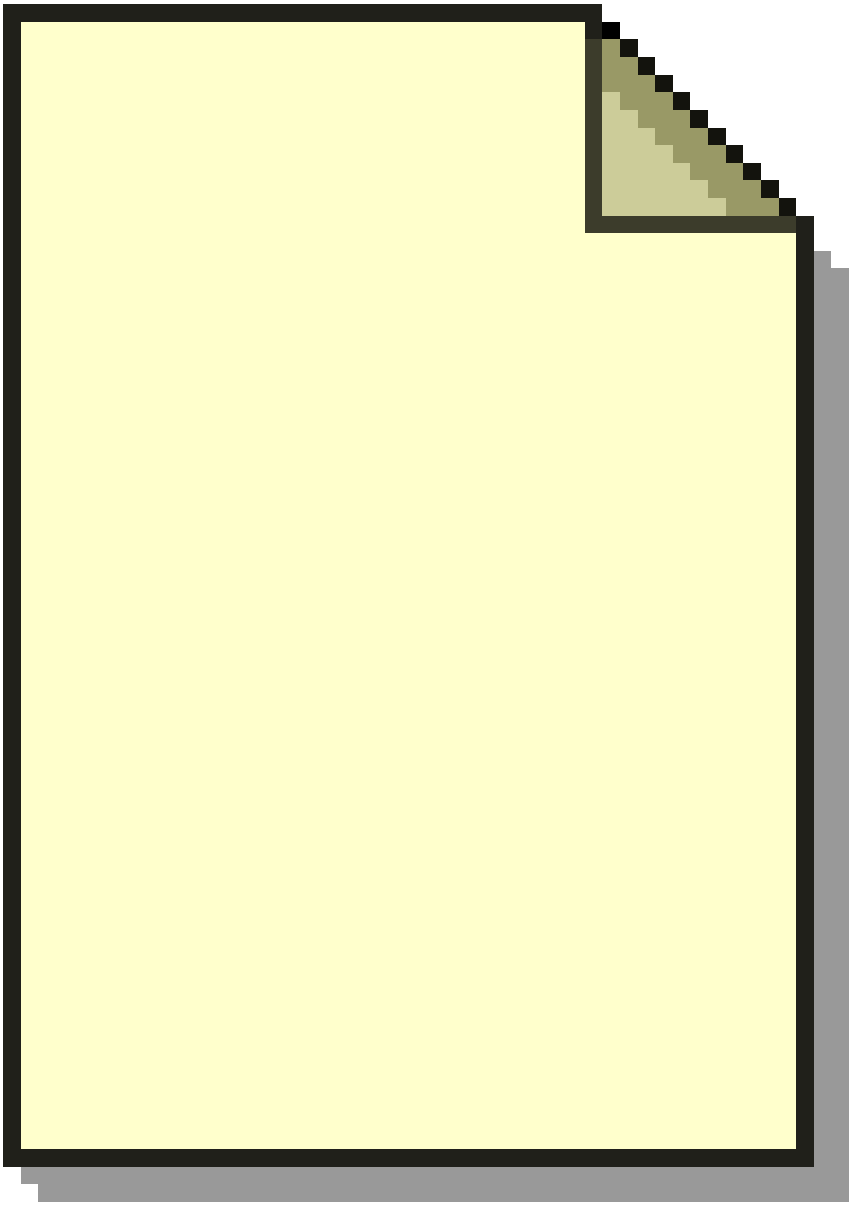
```
And this is a calibration constant distribution for direct readout module.
2 dead channels are not filled.
```



File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/25.03/2007-03-25T23:25:17-00.jpg

2007-03-25 23:25 S. Uozumi

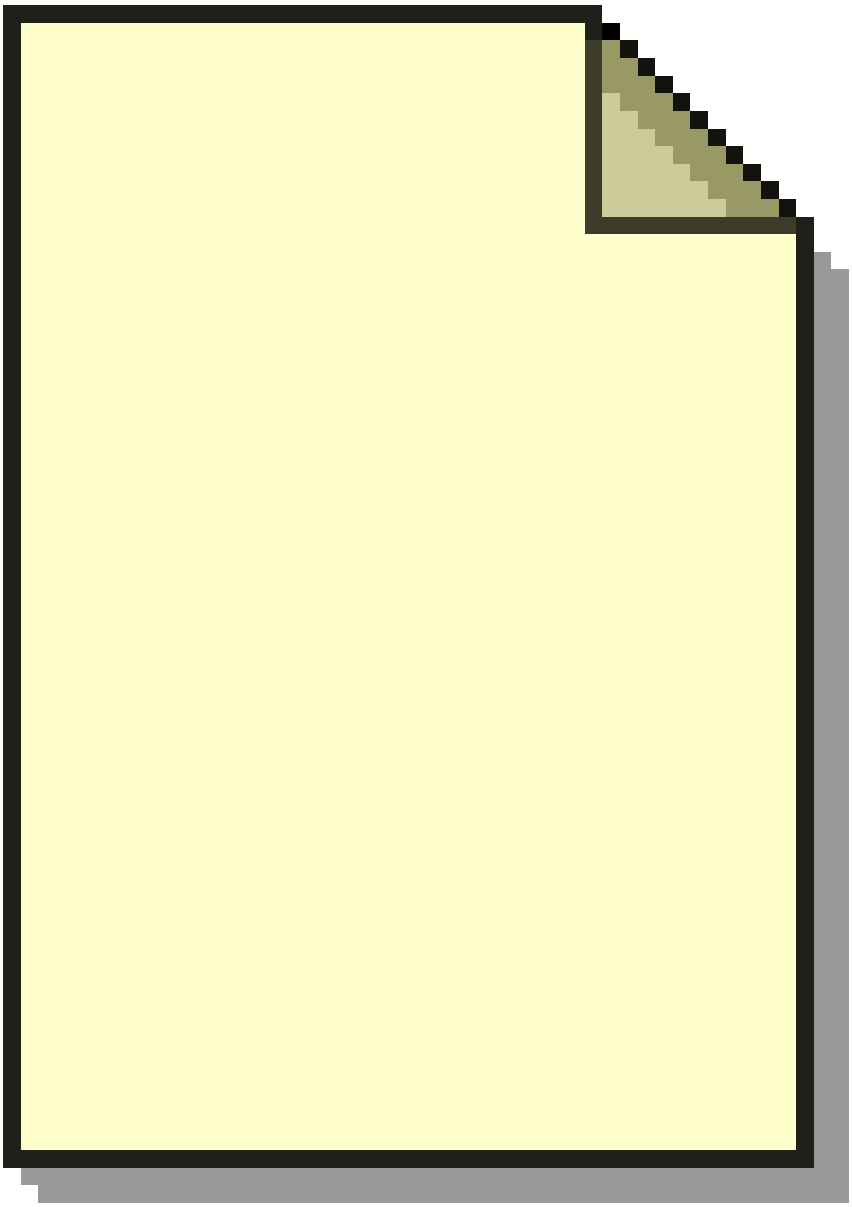
If you want to see more distributions, you can look into attached root file.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/25.03/2007-03-25T23:25:56-00.root

2007-03-25 23:26 S. Uozumi

Table of the calibration constant from MIP runs with 1st configuration after tungsten removal.
Format:
layerID stripID calibconst calibconst_err fit_chisq fit_NDof



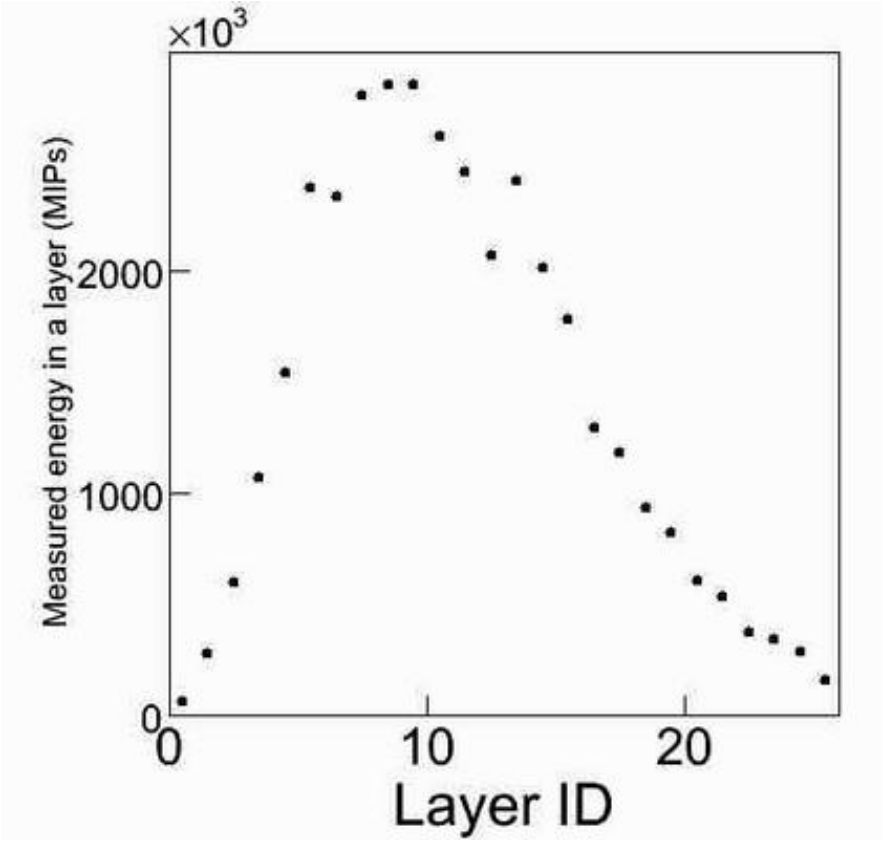
File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/25.03/2007-03-25T23:26:57-00.dat

2007-03-25 23:28 S. Uozumi

Then I look into 6 GeV central injection run.
First I look longitudinal shower profile to see the calibration constants are reasonable or not.

Attached plot shows the profile (sorry no error bars), there are some bumps especially on layer-6.

There is another bump at the border of fiber and direct readout modules.
Note: I made a mistake about scale of vertical axis, sorry, the vertical axis is not a measured
energy, actually it is measyred energy summed over all events.
That's why the measured energy is so huge...



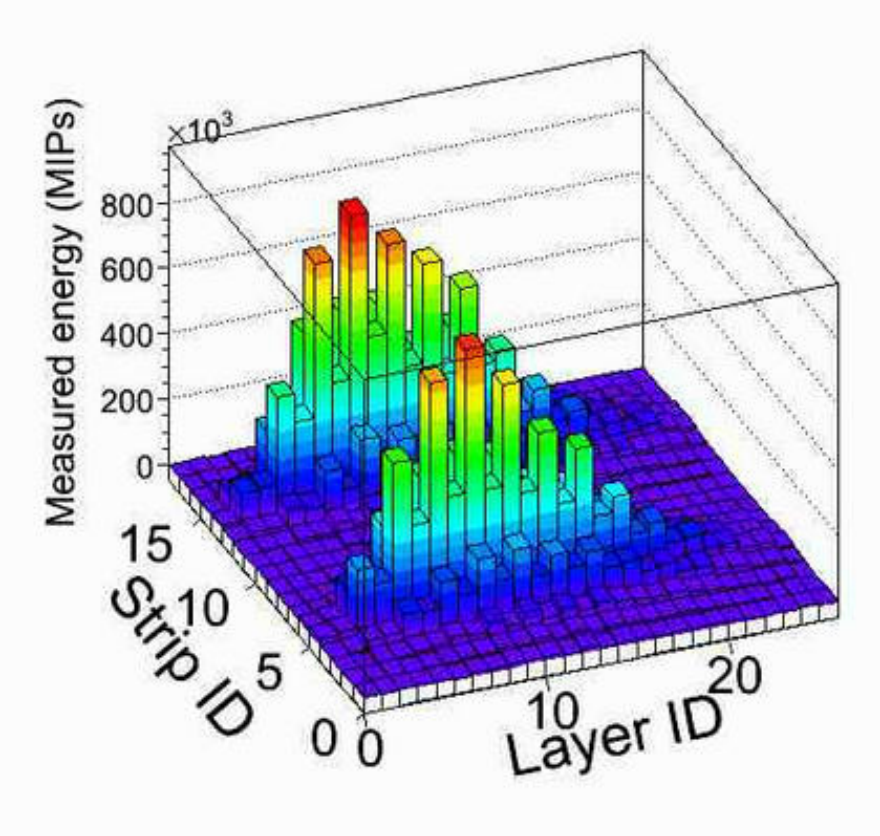
File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/25.03/2007-03-25T23:28:00-00.jpg

2007-03-25 23:30 S. Uozumi

To see what is happening, I make a response map for the 6 GeV center injection run.
As you can see the bump in the shower profile comes from high response at Layer-6 strip-14.
I checked the MIP fit for this strip, but looks OK.
I suspect this may be caused by the non-uniformity of the strip.
If the shower hits the region very close to MPPC, it gives larger response.
But still not sure, if it's true, we should see same effect on other layers...
Anyway investigation is necessary ...

All the macros used to make these plots are found at:
flcscecalana:/home/satoru/analysis

Note: this plot also have wrong z-axis scale.

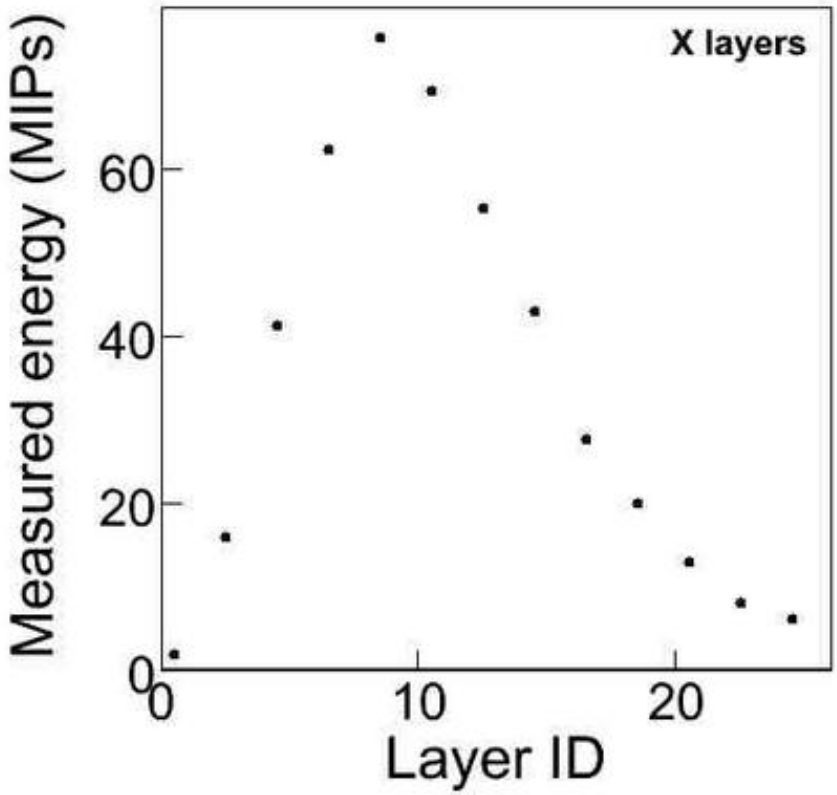


File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/25.03/2007-03-25T23:30:04-00.jpg

2007-03-26 00:51 S. Uozumi

If the bump is really come from non-uniformity, I think we should not plot X and Y layers in a same shower profile plot.

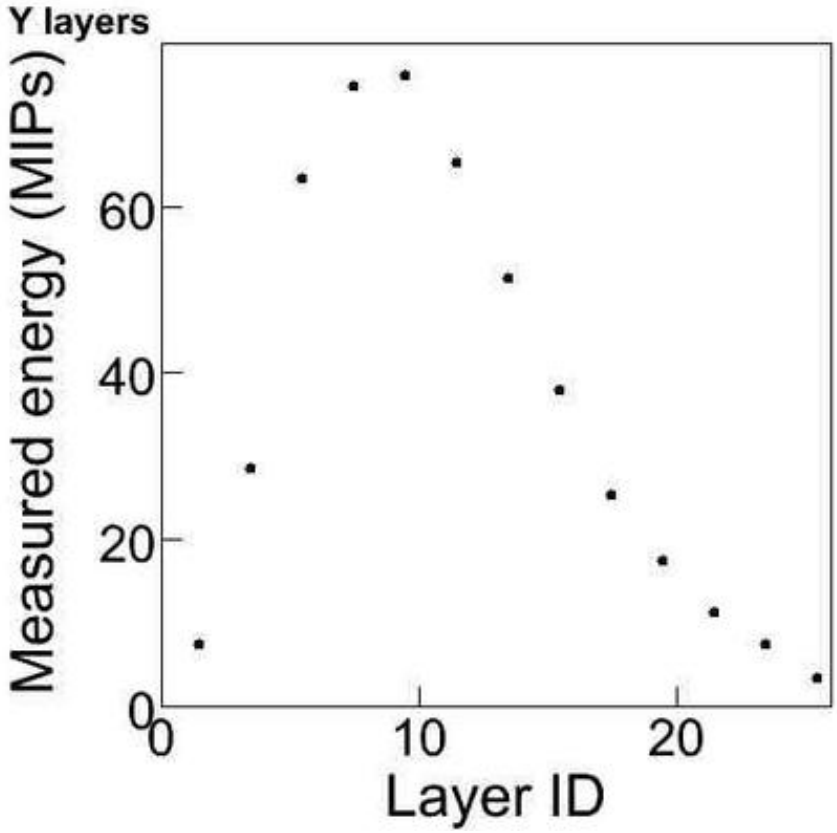
Then I split the shower profile plot into two, namely for only X layers and Y layers,
This is a plot only for x-layers.
In this plot I apply "inter-module" calibration factor to the response of direct readout module.
The inter-module factor is set to be 0.8, this number is just my guess to have smooth shower curve...



File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/25.03/2007-03-26T00:51:53-00.jpg

2007-03-26 01:00 S. Uozumi

Same plot for Y layers, with inter-module factor of 0.8.
So, in fact, the bump is not a bump...?
It is difficult to say this curve is smooth or not smooth,
I think we have to overlay expected shower curve from simulation or simple calculation.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/12/25.03/2007-03-26T01:00:03-01.jpg

2007-03-26 09:26 S. Uozumi

Runs 400796-400801 are over-night precise 9x9 scan with 3rd configuration.

2007-03-26 10:27 S. Uozumi **beam runs finished**

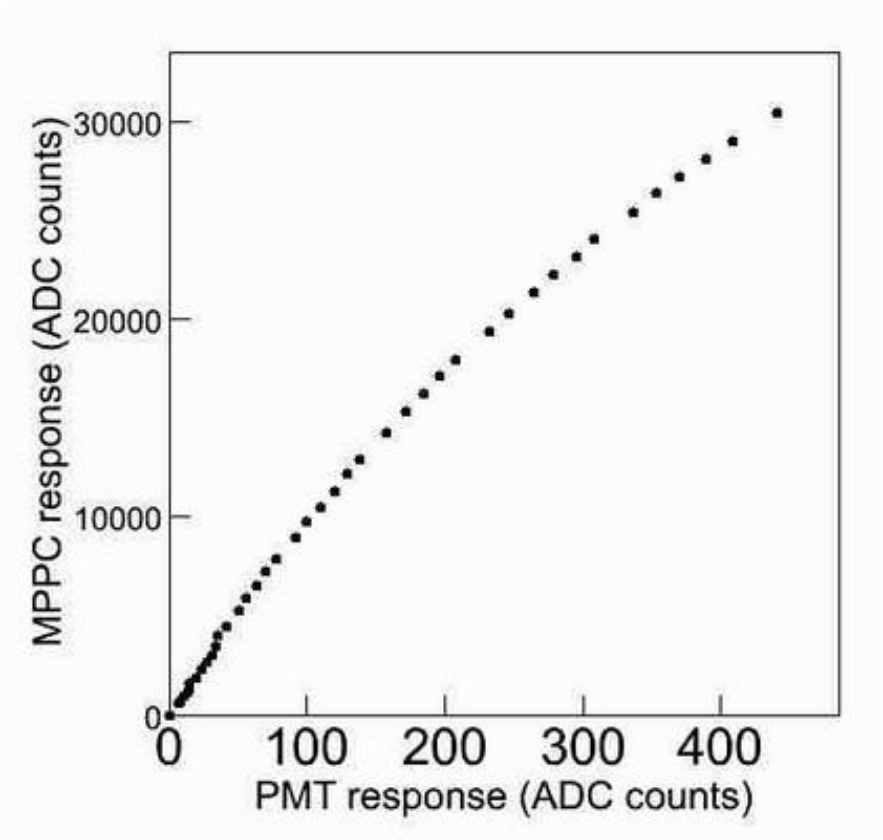
! We have finished all the beam runs !!!

2007-03-26 13:09 S. Uozumi **saturation curve measurement**

Now entering to the saturation curve measurement, with lots of help from Beni and Erika...

2007-03-26 18:01 S. Uozumi **Response curve**

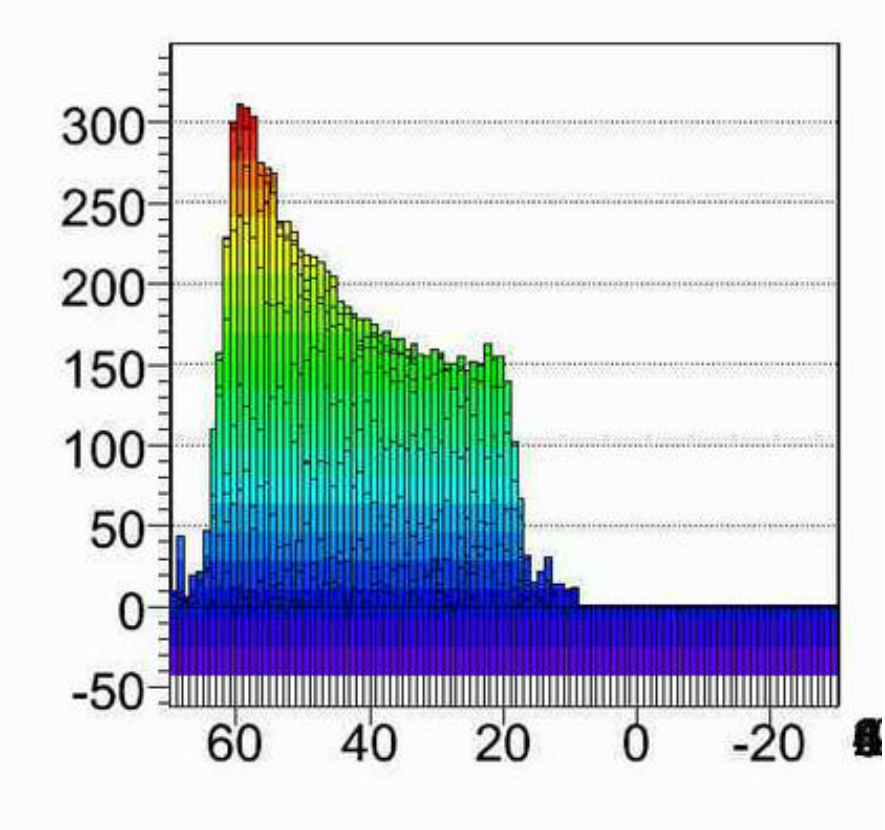
Response curve of WLSF readout strip with AHCAL electronics.
Thanks to Beni, Erika and Peter!
Horizontal axis is not yet calibrated to number of fired pixels.



File: http://ttfinfo.desy.de/CALICEelog/data/2007/13/26.03/2007-03-26T18:01:35-01.jpg

2007-03-27 07:45 S. Uozumi **response map**

This is the response map of extruded scintillator, which shows uniformity for the MIPs...



File: http://ttfinfo.desy.de/CALICEelog/data/2007/13/26.03/2007-03-27T07:45:12-00.jpg

2007-03-28 08:47 S. Uozumi and All **The SCECAL beam test has been finished. Thanks CALICE DESY!**

Mesurement of saturation curve, and shipping are done!
Analysis will be followed soon.

We really appreciate lots of people who strongly supported and gave great helps to the SCECAL beam test!

2007-03-30 23:49 S. Uozumi **run summary again**

Since I could not modify the old entries in e-log from Japan, I put another updated run summary here...
Now all the LED runs are added.

1st configuration (fiber+direct) 1st round ----------
MIP calibration before putting tungsten: 400262

detector scan (36 points):
1GeV ... 400309(point0~35)
2GeV ... 400308(point0~35)
3GeV ... 400305(point0~35)
4GeV ... 400302(point0~35)
5GeV ... 400296(point0~35), 400310(point0~35), 400311(point0~35), 400314(point0~35)
6GeV ... 400285~400291(point0~35)

center part scan (9 points)
1GeV ... 400309(point36~44)
2GeV ... 400308(point36~44)
3GeV ... 400305(point36~44)
4GeV ... 400302(point36~44), 400313(point36~44)
5GeV ... 400296(point36~44), 400310(point36~44), 400311(point36~44), 400314(point36~44)
6GeV ... 400264,Run400285~400291(point36~44)

Center injection (1 points x many times)
1GeV ... 400317(90k ev)
2GeV ... 400318(90k ev)
3GeV ... 400319(90k ev)
4GeV ... 400320(90k ev)
5GeV ... 400314(point45~54),400321(90k ev)
6GeV ... 400322(90k ev)

end of 1st configuration 1st round ----------

LED run with 1st configuration (only 3 layers) ----------

Pedestal runs
400382 ... CmNoise
400398 ... PmNoise

for Layer7-Strip15,
400406 ... CmLed for inter-calibration
400407 ... PmLed for inter-calibration
400385 ... CmLed to see 1pe peak
400386 ... CmLed to see 1pe peak with over-voltage +1V (3.5V)

for Layer8-Strip15,
400393 ... CmLed for inter-calibration
400396 ... PmLed for inter-calibration
400394 ... CmHoldScan
400395 ... PmHoldScan
400401 ... CmLed to see 1pe peak, 100k ev.
400402 ... CmLed to see 1pe peak, 100k ev. but with slightly higher light to see adjacent strips

400419 ... CmLed to see 1pe peak, 100k ev.
400420 ... CmLed to see 1pe peak, with over-voltage +1V (3.5V)

for Layer14-Strip13,
400411 ... CmLED for inter-calibration
400412 ... PmLed for inter-calibration
400413 ... CmLedHoldScan for confirmation
400414 ... PmLedHoldScan for confirmation
400416 ... CmLed to see 1pe peak, 100k ev.
400417 ... CmLed to see 1pe peak, 100k ev. with over-voltage +1V(3.5V)
400421 ... CmLed to see 1pe peak, 100k ev. but slightly higher light to see adjacent strips

end of LED runs ----------

between 1st and 2nd round, the drift chamber is tuned to improve efficiency.

1st configuration (fiber+direct) 2st round ----------

Each run contains data with 55 points
(36 points for center of each strip of X and Y layers + 9 points for central part scan + 1 points

x 10 times for central injection).
1 points have 10k events of beam data and 1k events of pedestal.

1 GeV ... 400422, 400423
2 GeV ... 400425, 400426
3 GeV ... 400427, 400428
4 GeV ... 400429, 400438
5 GeV ... 400432, 400437
6 GeV ... 400434, 400435

end of 1st configuration 2nd round ----------

LED run after 1st config 2nd round to see gain of Layer 6 strip 14.----------

Pedestal runs
400442 ... CmNoise
400443 ... PmNoise

for Layer6-Strip14,
400440 ... CmLed for inter-calibration
400441 ... PmLed for inter-calibration
400445 ... CmLed to see 1pe peak
400446 ... CmLed to see 1pe peak around strip 14.

For Layer11-Strip15,
400449 ... CmLed for inter-calibration
400450 ... PmLed for inter-calibration
400447 ... CmLed to see 1pe peak
400448 ... CmLed to see 1pe peak around strip 15.

end of LED runs ----------

MIP calibration with 1st configuration after removing tungsten ----------
400451
400452
400453
400454
400455
400456
400457

end of MIP calibration run ----------

Precise detector scan with 1st config after removing tungsten ----------
400459 (81 points entire detector)
400460 (81 points entire detector)
400462 (81 points entire detector)
400464 (30 points, precise scan for X-layer strip-5)
end of precise scan ----------

2nd configuration MIP calibration before putting tungsten ----------
400468
400469
400470
400471
end of MIP calibration ----------

2nd configuration precise detector scan before putting tungsten ----------
400473 (81 points entire detector)
400474 (81 points entire detector)
400475 (81 points entire detector)
400477 (30 points, precise scan for X-layer strip-5)
400478 (30 points, precise scan for X-layer strip-5)
400479 (30 points, precise scan for X-layer strip-5)
400480 (30 points, precise scan for X-layer strip-5)
400481 (30 points, precise scan for X-layer strip-5)
400482 (30 points, precise scan for X-layer strip-5)
400483 (30 points, precise scan for X-layer strip-5, stopped at 7th point)
400484 (81 points entire detector)
400485 (81 points entire detector)
400486 (81 points entire detector)
400487 (81 points entire detector)
400488 (81 points entire detector)
400491 (30 points, precise scan for X-layer strip-5)
end of precise scan ----------

2nd configuration energy and position scan ----------

400492, 400493 (1GeV 36+9+10 points)
400495, 400497 (2GeV 36+9+10 points)
400499, 400500 (3GeV 36+9+10 points)
400502 (4GeV 36+9+10 points)
400508 (4GeV 36+9+5 points)
400512 (4GeV 90k central injection)
400509, 400510 (5GeV 36+9+10 points)
400504, 400505, 400506 (6GeV 36+9+10 points)
400513 (3GeV 3x10 points precise scan for X-layer strip 5)
400514 (3GeV 5x20 points precise scan for X-layer strip 5 and 14)
400515 (3GeV 5x20 points precise scan for X-layer strip 5 and 14)
400516 (3GeV 5x20 points precise scan for X-layer strip 5 and 14)
400517 (3GeV 5x20 points precise scan for X-layer strip 5 and 14)
end of 2nd configuration energy / position scan ----------

2nd configuration MIP calibration after removing tungsten ----------
400519
400520
400521
400522
400523
400524
400525
400526
400527
end of MIP calibration ----------

Precise scan with 2nd configuration without tungsten ----------
400529 ... entire detector scan (9x9 points)
400530 ... entire detector scan (9x9 points)
400531 ... entire detector scan (9x9 points)
400532 ... entire detector scan (9x9 points)
400533 ... entire detector scan (9x9 points)
400535 ... one strip scan (3x10 points)
400536 ... one strip scan (3x10 points), may be stopped before finished
400537 ... one strip scan (3x10 points), may be stopped before finished
end of precise scan ----------

MIP calibration with 3rd configuration (36 points scanned)
400543
400544
400545
400546
400547
400548
400549
400550
400551 ... stopped at 34th point, data available until 33th point
end of MIP calibration with 3rd config ----------

LED runs with 3rd configuration before putting tungsten ----------

Pedestal runs
400555 ... CmNoise with LED on
400556 ... PmNoise with LED on
400557 ... CmNoise with LED off
400558 ... PmNoise with LED off

For Layer20-strip15:
400553 ... CmLed for inter-calibration
400554 ... PmLed for inter-calibration
400562 ... CmLed to see 1pe peak
400564 ... CmLed to see 1pe peak around strip 15.

For Layer21-strip15:
400567 ... CmLed for inter-calibration
400568 ... PmLed for inter-calibration
400570 ... CmLed to see 1pe peak
400572 ... CmLed to see 1pe peak around strip 15.

For Layer23-strip15:
400577 ... CmLed for inter-calibration
400578 ... PmLed for inter-calibration
400580 ... CmLed to see 1pe peak
400582 ... CmLed to see 1pe peak around strip 15.

For Layer22-strip15:
400586 ... CmLed for inter-calibration
400587 ... PmLed for inter-calibration
400590 ... CmLed to see 1pe peak
400592 ... CmLed to see 1pe peak around strip 15.

For Layer14-strip15:
400594 ... CmLed for inter-calibration
400595 ... PmLed for inter-calibration

```
400597 ... CmLed to see 1pe peak
400599 ... CmLed to see 1pe peak around strip 15.

For Layer15-strip15:
400602 ... CmLed for inter-calibration
400603 ... PmLed for inter-calibration
400605 ... CmLed to see 1pe peak
400607 ... CmLed to see 1pe peak around strip 15.

For Layer16-strip15:
400609 ... CmLed for inter-calibration
400610 ... PmLed for inter-calibration
400612 ... CmLed to see 1pe peak
400614 ... CmLed to see 1pe peak around strip 15.

For Layer17-strip15:
400618 ... CmLed for inter-calibration
400619 ... PmLed for inter-calibration
400621 ... CmLed to see 1pe peak
400623 ... CmLed to see 1pe peak around strip 15.

For Layer18-strip15:
400625 ... CmLed for inter-calibration
400626 ... PmLed for inter-calibration
400628 ... CmLed to see 1pe peak
400629 ... Same with 400628 but with +1V increased base voltage (=80V)
400631 ... CmLed to see 1pe peak around strip 15.

For Layer19-strip14:
400633 ... CmLed for inter-calibration
400634 ... PmLed for inter-calibration
400636 ... CmLed to see 1pe peak (can see also on strip 15)
400637 ... Same with 400636 but with +1V increased base voltage (=80V)
400639 ... CmLed to see 1pe peak around strip 15.

Pedestal run
400640 ... PmNoise with LED off
400641 ... CmNoise with LED off

end of LED runs ------------------------------------------------------

energy and position scan with 3rd configuration ------------------------
400650,400651 (1GeV 36+9+10 points)
400653,400654 (2GeV 36+9+10 points)
400655,400656 (3GeV 36+9+10 points)
400657 (4GeV 36+9 points)
400772, 400773 (4GeV 36+9+10 points)
400765 (5GeV 36 points)
400774, 400775 (5GeV 36+9+10 points)
400647,400648 (6GeV 36+9+10 points)
end of energy scan with 3rd config --------------------------

LED runs with 3rd configuration during no-beam period ----------------------------

HoldScan again to check whether current holdvalue is OK for KNU module or not.
400664 ... CmLedHoldScan
400665 ... PmLedHoldScan
found that current hold values are also fine for KNU module.

For Layer12-strip14,15:
400666 ... CmLed for inter-calibration
400667 ... PmLed for inter-calibration
400670 ... CmLed to see 1pe peak

For Layer10-strip14,15:
400672 ... CmLed for inter-calibration
400673 ... PmLed for inter-calibration
400675 ... CmLed to see 1pe peak

For Layer8-strip14,15:
400679 ... CmLed for inter-calibration
400680 ... PmLed for inter-calibration
400682 ... CmLed to see 1pe peak
400683 ... Same with 400682 but with +1V increased base voltage (=80V)
400685 ... CmLed to see 1pe peak at strip 14.

For Layer4-strip14,15:
400689 ... CmLed for inter-calibration
400690 ... PmLed for inter-calibration
400692 ... CmLed to see 1pe peak

For Layer2-strip14,15:
400697 ... CmLed for inter-calibration
400698 ... PmLed for inter-calibration
400700 ... CmLed to see 1pe peak
```

For Layer6-strip14,15:
400706 ... CmLed for inter-calibration
400707 ... PmLed for inter-calibration
400709 ... CmLed to see 1pe peak

For Layer24-strip15:
400710 ... CmLed for inter-calibration
400711 ... PmLed for inter-calibration
I could not see 1pe peak with this strip, due to too wide pedestal width.

For Layer25-strip15:
400715 ... CmLed for inter-calibration
400716 ... PmLed for inter-calibration
400718 ... CmLed to see 1pe peak
400719 ... CmLed to see 1pe peak around strip 15.

For Layer26-strip15:
400721 ... CmLed for inter-calibration
400722 ... PmLed for inter-calibration
400723 ... CmLed to see 1pe peak
400724 ... CmLed to see 1pe peak around strip 15.

Following runs are strips measured second time, so no inter-calibration for this time.

For Layer14-strip15:
400725 ... CmLed to see 1pe peak
400726 ... Same with 400725 but with +1V increased base voltage (=80V)
400728 ... CmLed to see 1pe peak around strip 15 (pedestal too wide, difficult?)

For Layer15-strip15:
400729 ... CmLed to see 1pe peak
400730 ... Same with 400729 but with +1V increased base voltage (=80V)
400731 ... CmLed to see 1pe peak around strip 15

For Layer16-strip15:
400732 ... CmLed to see 1pe peak
400733 ... Same with 400732 but with +1V increased base voltage (=80V)
400734 ... CmLed to see 1pe peak around strip 15

For Layer18-strip15:
400735 ... CmLed to see 1pe peak
400736 ... Same with 400736 but with +1V increased base voltage (=80V)
400737 ... CmLed to see 1pe peak around strip 15

For Layer17-strip15:
400738 ... CmLed to see 1pe peak
400739 ... Same with 400738 but with +1V increased base voltage (=80V)

For Layer19-strip15:
400740 ... CmLed to see 1pe peak
400741 ... Same with 400740 but with +1V increased base voltage (=80V)
400742 ... CmLed to see 1pe peak around strip 15 (pedestal too wide, difficult?)

For Layer20-strip15:
400743 ... CmLed to see 1pe peak
400744 ... Same with 400743 but with +1V increased base voltage (=80V)
400745 ... CmLed to see 1pe peak around strip 15

For Layer22-strip15:
400747 ... CmLed to see 1pe peak
400748 ... Same with 400747 but with +1V increased base voltage (=80V)
400749 ... CmLed to see 1pe peak around strip 15

For Layer21-strip15:
400750 ... CmLed to see 1pe peak
400751 ... Same with 400750 but with +1V increased base voltage (=80V)
400752 ... CmLed to see 1pe peak around strip 15

For Layer23-strip15:
400753 ... CmLed to see 1pe peak
400754 ... Same with 400753 but with +1V increased base voltage (=80V)
400755 ... CmLed to see 1pe peak around strip 15

Pedestal runs:
400756 CmNoise with LED on
400757 PmNoise with LED on
400759 PmNoise with LED off
400760 CmNoise with LED off

end of LED runs ----------

3rd configuration precise scan with tungsten ----------
400658 (9x9 points)
400659 (9x9 points)
400767 (9x9 points)
400768 (9x9 points)

400769 (9x9 points)
400770 (9x9 points)
400777 (5x20 points)
400778 (5x20 points)
400779 (5x20 points)
400780 (5x20 points)
400781 (5x20 points)

end of precise scan ----------

MIP calibration after tungsten removal with 3rd configuration ----------
400784
400785
400786
end of MIP calibration ----------

precise scan after tungsten removal with 3rd configuration
400788 (3x10 one strip precise scan)
400789 (3x10 one strip precise scan)
400790 (3x10 one strip precise scan)
400791 (3x10 one strip precise scan)
400792 (3x10 one strip precise scan)
400793 (3x10 one strip precise scan)
400794 (3x10 one strip precise scan)
400796 (9x9 precise entire detector scan)
400797 (9x9 precise entire detector scan)
400798 (9x9 precise entire detector scan)
400799 (9x9 precise entire detector scan)
400800 (9x9 precise entire detector scan)
400801 (9x9 precise entire detector scan)
400802 (9x9 precise entire detector scan)
end of precise scan ----------

2007-02-02 13:24 E. Garutti **H6 beam manual**



File: http://ttfinfo.desy.de/CALICEelog/data/doc/CERN docu/2007-02-02T13:24:52-00.pdf

2007-02-13 14:42 Doerte David **assembling status**

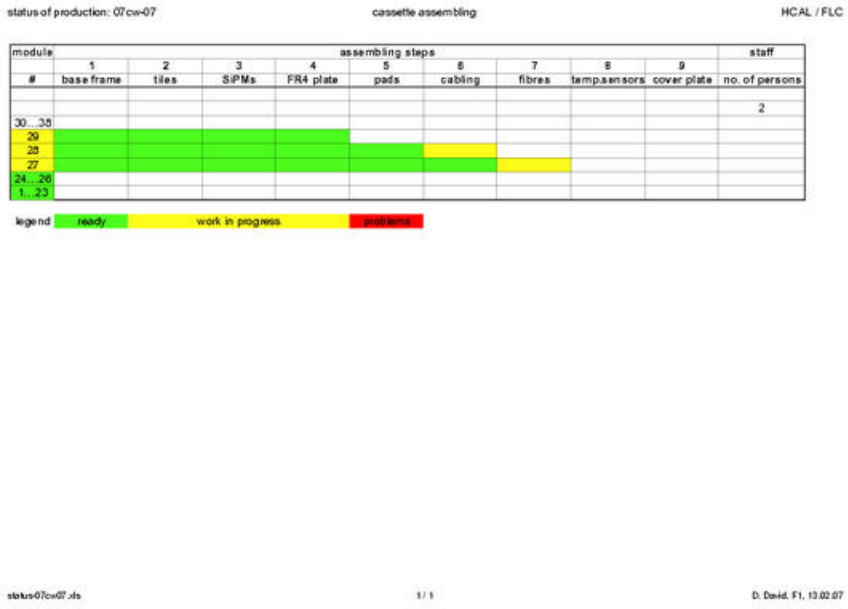
In January of this year the new tiles for cassettes 29 to 32 and spare tiles for previous cassettes arrived at DESY and Sasha started with the tile tests at DESY.

Assembling of the cassettes restarted end of January, when first Natasha and then Andrey came to DESY again.

After some complications in the beginning, assembling is now business as usual.

But with cassette no. 31 we will start with the coarse structure of tile layout. That is why we have to make some changes in some of the procedures at that time.

cassettes work in progress: 27 - 29
cassettes ready: 24 - 26
1 - 23



status of production: 07cw-07 cassette assembling HCAL / FLC

module	assembling steps									staff
#	1 base frame	2 tiles	3 SiPMs	4 FR4 plate	5 pads	6 cabling	7 fibres	8 temp.sensors	9 cover plate	no. of persons
										2
30...35										
29										
28										
27										
24...26										
1...23										

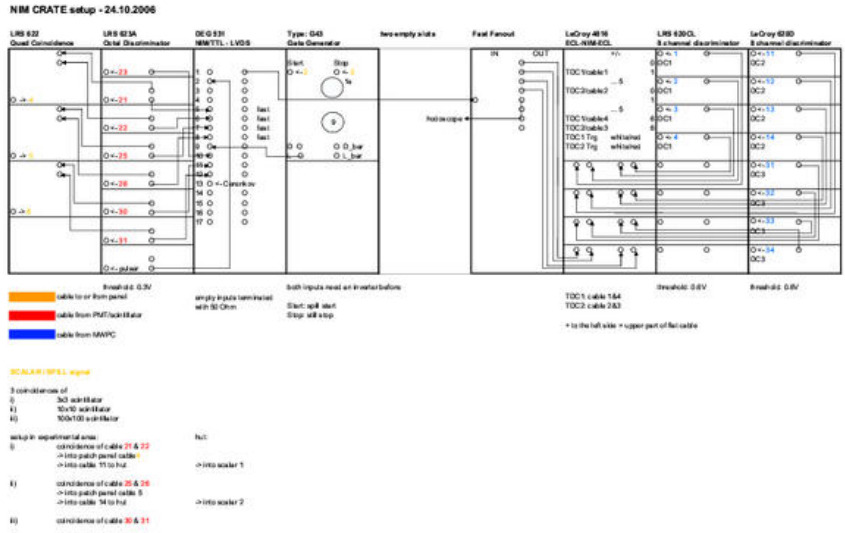
legend: ready | work in progress | problems

status-07cw07.xls 1 / 1 D. David, F1, 13.02.07

File: http://ttfinfo.desy.de/CALICEelog/data/2007/07/13.02/2007-02-13T14:42:06-01.pdf

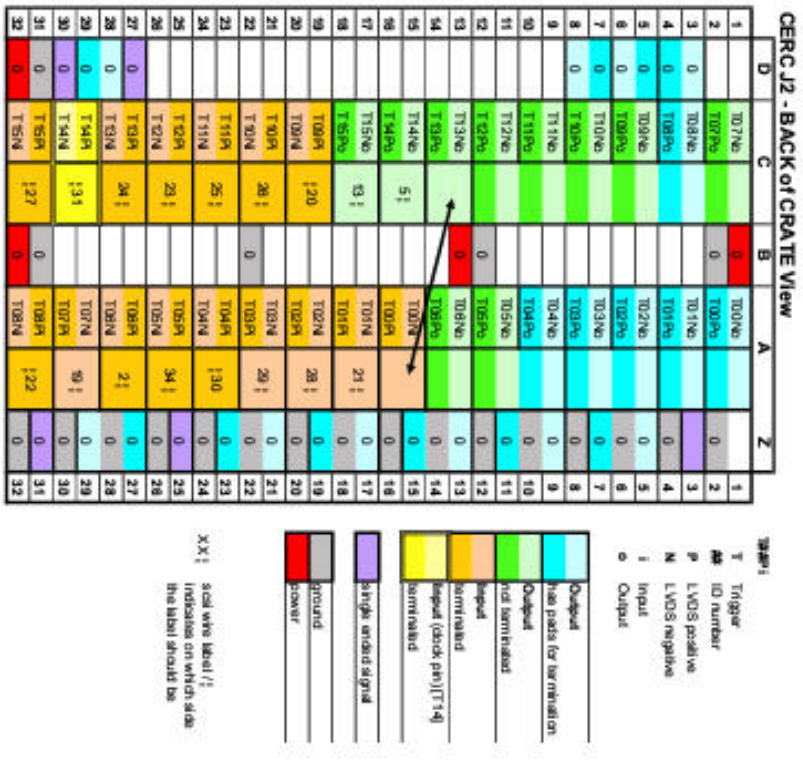
2007-02-16 12:10 Marius **NIM crate / cabeling**

The pictures are trying to explain how the NIM crate trigger and DWC cabeling was done at CERN.



File: http://ttfinfo.desy.de/CALICEelog/data/doc/electronics/2007-02-16T12:10:44-00.pdf

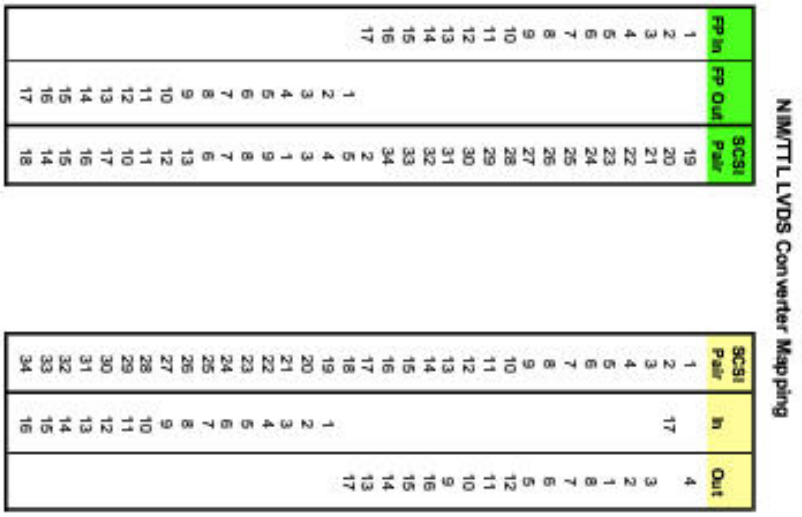
2007-02-16 12:40 Marius **CRC Trigger backplane cabeling**



File: http://ttfinfo.desy.de/CALICEelog/data/doc/electronics/2007-02-16T12:40:30-00.pdf

2007-02-16 14:24 Marius **LVDS-NIM converter**

Thanks to Matt Warren



File: http://ttfinfo.desy.de/CALICEelog/data/doc/electronics/2007-02-16T14:24:28-00.pdf

2007-02-20 16:52 Sebastian Schaetzel **Intercalibration runs**

400006	ahcPmLedVcalibScan
400007	ahcCmLedVcalibScan
400008	ahcGain

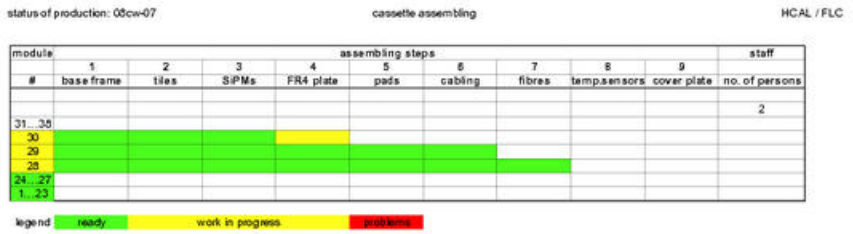
Module 24 in FE1
Module 26 in FE6

2007-02-21 16:59 Doerte David **assembling status**

Assembling is going on.

For cassette 30 we have to use a spare and not complete prepared FR4 plate because 1 prepared plate was drilled wrong last year. So additional to the holes for the current SiPMS all holes for the mirrors have to be drilled too.

cassettes work in progress: 30
29
28
cassettes ready: 24 - 27
1 - 23


status of production: 08cw-07 cassette assembling HCAL / FLC

module	assembling steps									staff
	1	2	3	4	5	6	7	8	9	
#	base frame	tiles	SiPMs	FR4 plate	pads	cabling	fibres	temp.sensors	cover plate	no. of persons
										2
31...35										
30										
29										
28										
24...27										
1...23										

legend ready work in progress problems

status-08cw07.xls 1 / 1 D. David, F1, 21.02.07

File: http://ttfinfo.desy.de/CALICEelog/data/2007/08/21.02/2007-02-21T16:59:48-00.pdf

2007-02-26 19:43 Marius **ASIC positions before coherent noise update**

This gives a list of the HAB position before exchanging them with the modified HABs to reduce the coherent noise.
HAB production number from the label of the HAB vs module and chip number



File: http://ttfinfo.desy.de/CALICEelog/data/doc/CERN docu/2007-02-26T19:43:35-00.pdf

2007-02-26 19:50 Marius **Holdscan results for august and october**

Holdscan results for august and october vs slot/fe or module



File: http://ttfinfo.desy.de/CALICEelog/data/doc/CERN docu/2007-02-26T19:50:15-00.pdf

	2007-02-26	20:19	Marius	**AHCAL readout (DAQ) map & power connection map**



File: http://ttfinfo.desy.de/CALICEelog/data/doc/CERN docu/2007-02-26T20:19:42-00.pdf

2007-02-26 20:30 Marius **DAC calculation procedure**

```
All given DAC values in this documentation are calculated with the following formula:

 dac = (hv_hbab - U_sipm - dacoffset) / voltagebin;

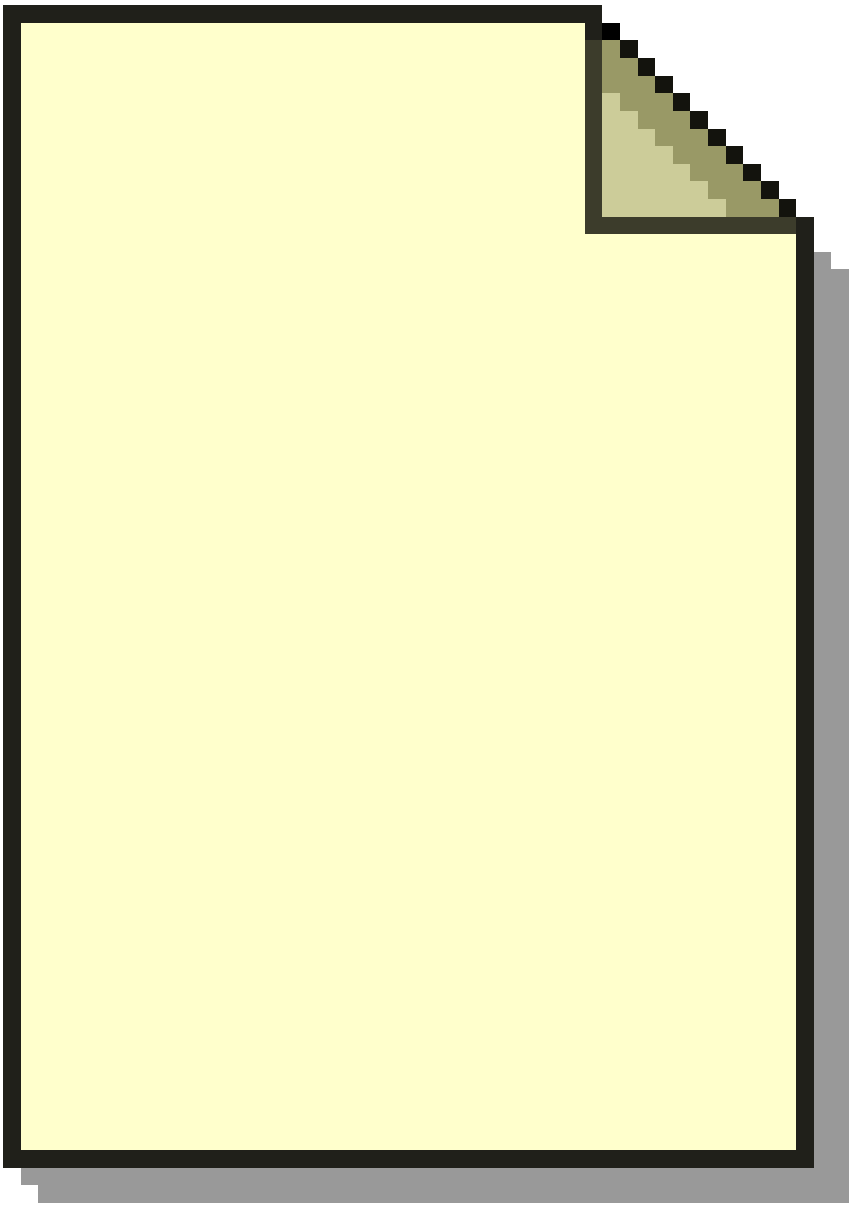
hv_hbab = voltage for the half module
U_sipm = needed SiPM bias voltage
dacoffset = 0.0; to give a common offset / not used
voltagebin = 0.01953125; // 5V / 256 bits

IMPORTANT:
To avoid the non-linear range of the DAC, we add to the maximun needed SiPM voltage for each module
 (hv_hbab) +0.3V. This leads to a file with no 0 entries for the DAC values.
It is also important to avoid the DAC range from 4.7 V on... try to minimize DAC value entries
higher
 than 240!
Both should be possible for all produced modules (23) until now, except module 2, where even the
 complete DAC range is not big enough (see DAC summary pdf in this elog-folder).


REMARK:
It is not completly clear if the DAC voltage slope given by the voltagebin variable is correct.
 Since it is not easy to measure the DAC output without influencing it, there are three
 different results on the market:
LAL
Alexandre Karakash
Benjamin
Therefore we are using the conservative approach and are using the mathematical value.
=> should be checked again
```

2007-02-27 07:59 Marius **AHC.cfg files august**

```
enclosed all used AHC.cfg files during the august run period
more information in the next entry
```



File: http://ttfinfo.desy.de/CALICEelog/data/doc/CERN docu/2007-02-27T09:30:59-00.zip

2007-02-27 08:00 Marius **AHC.cfg august run period**

this files gives a overview about the used AHC.cfg files during the august run period:
- a small comment in the first line gives an idea why a new file was needed
- the list starts from the 25.08.06 since before only debugging runs have been taken
- most of the changes are due to TCMT vcalib value changes, therefore no mapping change in the readout

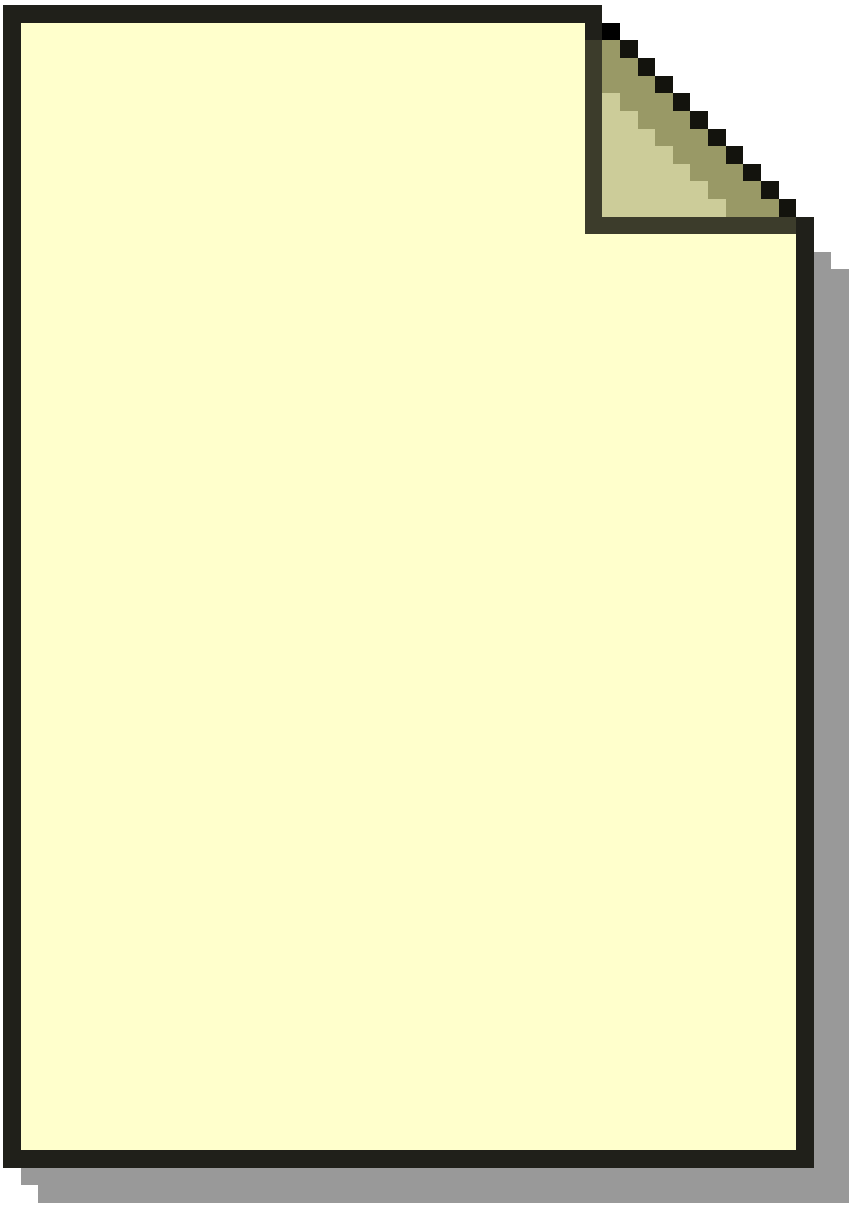
- files, where only the TCMT frontends were activated a left out, but they are in the zip-file in the entry before



File: http://ttfinfo.desy.de/CALICEelog/data/doc/CERN docu/2007-02-27T09:27:16-00.pdf

2007-02-27 09:00 Marius **DAC files for august**

- enclosed the used DAC files for the august run period
-> belongs to the next entry, where explanations are given



File: http://ttfinfo.desy.de/CALICEelog/data/doc/CERN docu/2007-02-27T09:16:21-00.zip

2007-02-27 09:03 Marius **DAC files for august run period**

DAC files for august:
- gives a overview about the HV settings
- shows which DAC files for which module have been used
- some comments

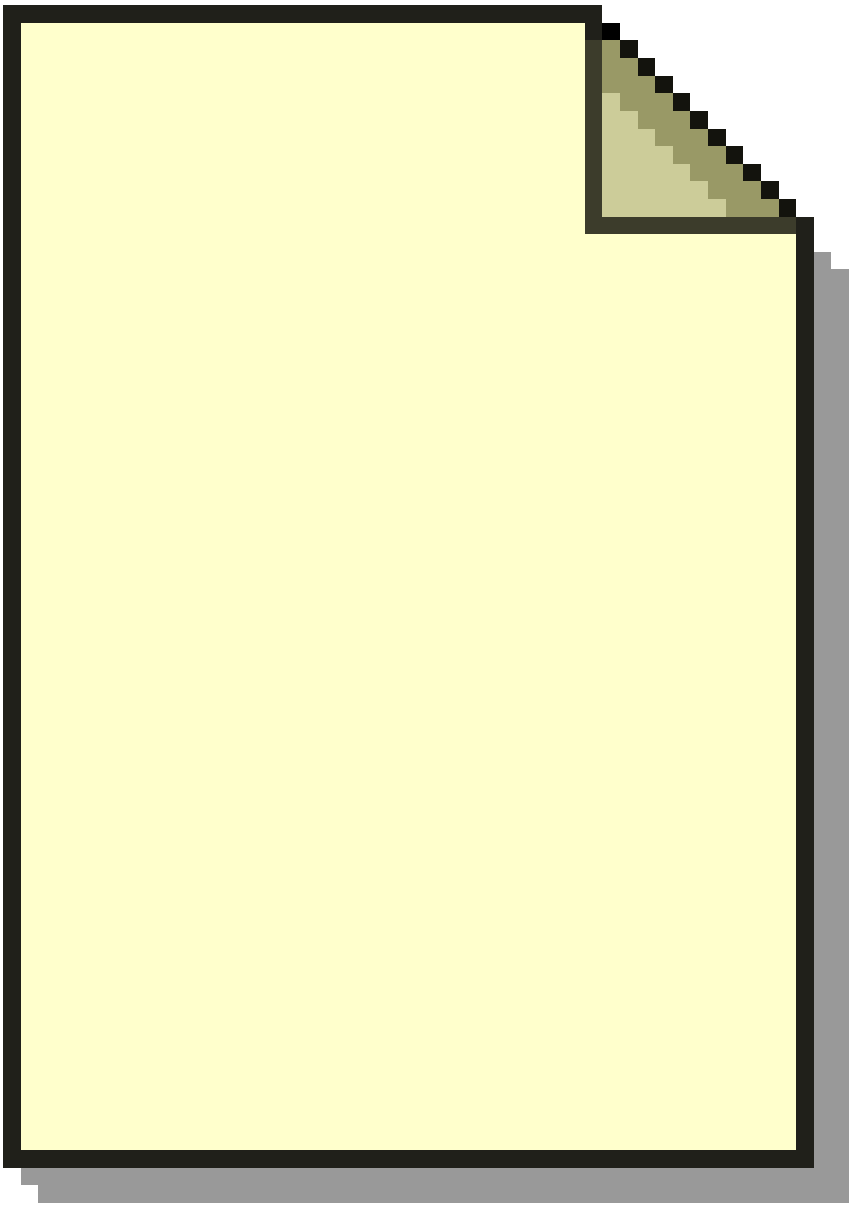
The mentioned DAC files are in the zip file in the entry below this one
A new DAC file have been used from the date, which is specified in the filename, on.
DAC_module??_<date>.dat
During the august period of serious data taking the DAC files have been not modified!
Therefore only one file per module is available.



File: http://ttfinfo.desy.de/CALICEelog/data/doc/CERN docu/2007-02-27T09:03:13-02.pdf

2007-02-27 09:30 Marius **AHC.cfg files for october run**

```
enclosed all used AHC.cfg files during the october run period
more information in the next entry
```



File: http://ttfinfo.desy.de/CALICEelog/data/doc/CERN docu/2007-02-27T09:48:03-00.zip

2007-02-27 09:39 Marius **AHC.cfg files for october run period**

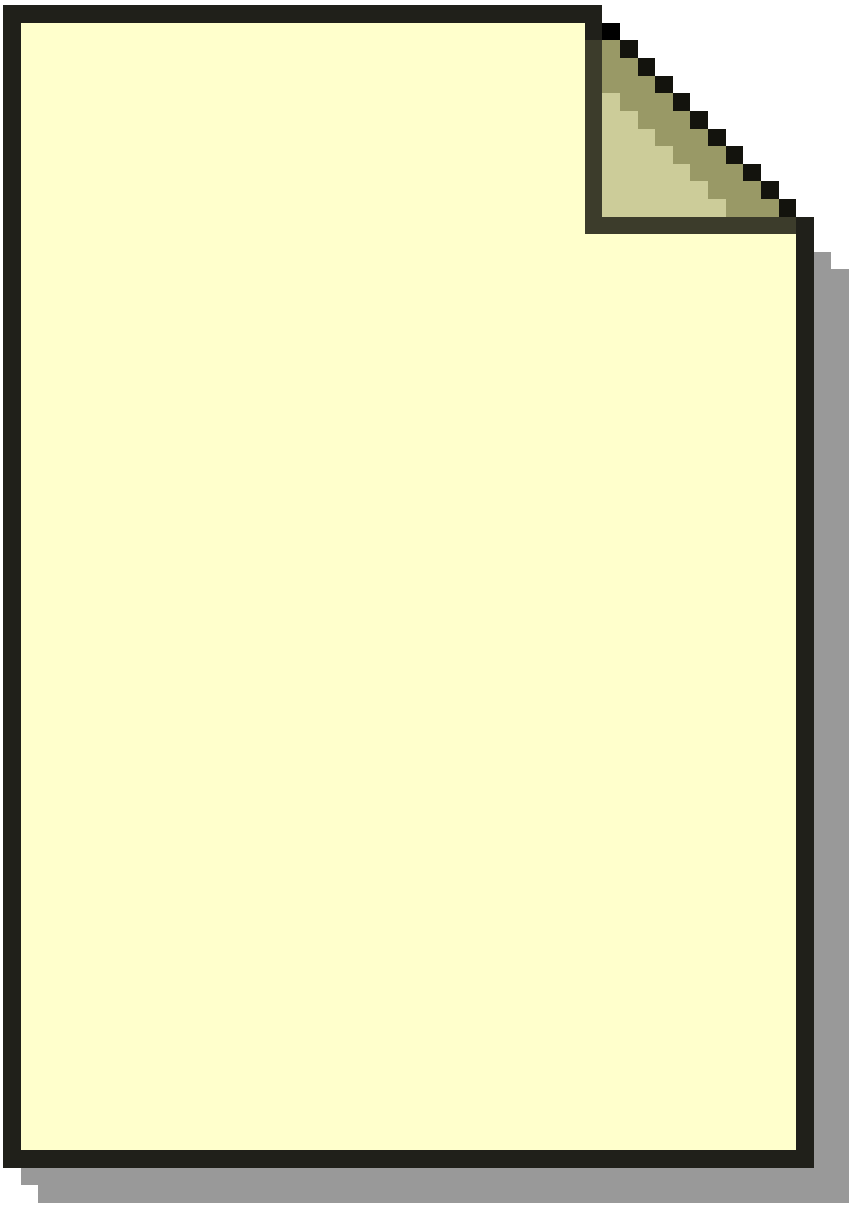
this files gives a overview about the used AHC.cfg files during the october run period:
- a small comment in the first line gives an idea why a new file was needed
- the first files, in which not all 23 modules are listed, because they were not yet installed are skipped, but they are in the zip-file
- all files, where only the TCMT frontends were activated a left out, but they are in the zip-file in the entry before



File: http://ttfinfo.desy.de/CALICEelog/data/doc/CERN docu/2007-02-27T09:39:04-01.pdf

2007-02-27 09:52 Marius **DAC files for october run period**

- enclosed all used DAC files during the october run period



File: http://ttfinfo.desy.de/CALICEelog/data/doc/CERN docu/2007-02-27T10:12:32-00.zip

2007-02-27 09:53 Marius **DAC files for october run period**

```
DAC files for october:
- gives a overview about the HV settings
- shows which DAC files for which module have been used (latest version)
- some comments

The mentioned DAC files are in the zip file in the entry below this one.
In this file all DAC files during the october run period are stored... not only the latest ones.

A new DAC file have been used from the date, which is specified in the filename, on.
DAC_module??_<date>.dat

During the october period of serious data taking the DAC files have been modified, to reduce for
 example long-discharge.
Therefore in the zip-file are sometimes more than one DAC file per module.

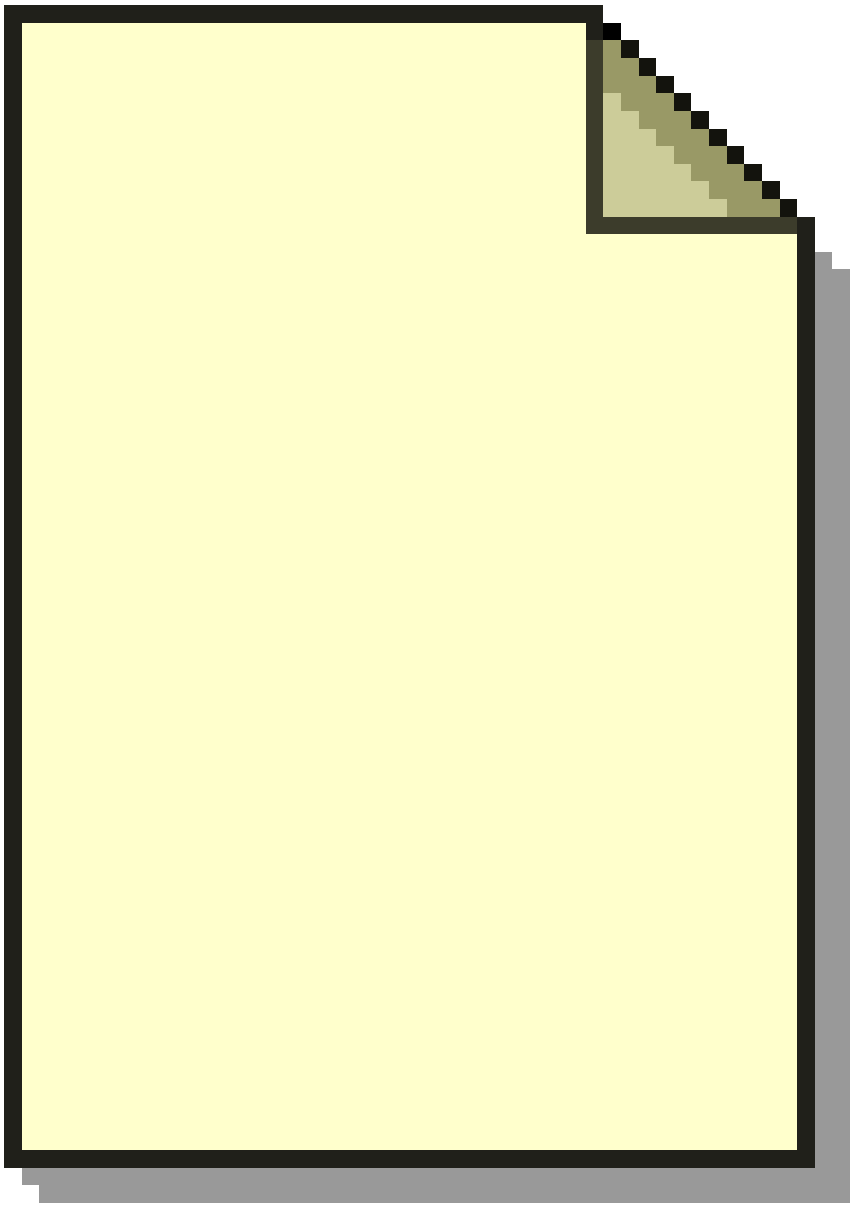
The reason for the not properly working Module01 can be found here: I have messed up the DAC file
 for Module01... it is identically to Module02, which leads to the conclusion that I did
 a mistake during copying.
```



File: http://ttfinfo.desy.de/CALICEelog/data/doc/CERN docu/2007-02-27T09:53:46-00.pdf

2007-02-27 10:00 Marius **SlowControl HV configuration files**

enclosed all used SlowConfiguration for the HV during both run periods



File: http://ttfinfo.desy.de/CALICEelog/data/doc/CERN docu/2007-02-27T20:27:30-00.zip

2007-02-27 14:02 Marius **DAQ / SC communication to CERN database**

During the testbeam period, the DAQ was sometimes stucked, because the CERN database was offline.

At a certain point we have used bit 7 from the DAQ runStart argument to start a run (-v) to decide if the DAQ should ask for the CERN database or not.

set bit 7 = -v 128
for example:
use trigger 100x100 with database: -v 19
use trigger 100x100 without database: -v 147

This is not needed anymore, since Sven has implemented a timeout in the SlowControl communication to the CERN database.

2007-02-27 14:07 Marius **AhcSlowReadoutData: bug in temperature readout in the october run period**

A bug in the temperature / slow control information readout exists, which leads to the fact that we have lost the slowReadout information for the following modules in the october run period.

Module number: 18, 20 and 22

Due to same bug you will get at the end of the slowReadout list information for module 25, 27 and

29, which are of course only filled with 0, because these modules did not exist / were not connected.

Also the part of the slowReadout information, which was read out over the very frontend side and not over the CAN-Bus/CMB side has not worked always correctly. We have found some runs in which this part of slowReadout information was for all modules the same. We do not know what has happened and which runs are affected in detail... my guess is that it has failed during the complete october run period.

see also the enclosed pdf-file

Detailed bug description:

Paul is using the received mapping information from the slowControl:

```
AhcSlowRunDataV1::print()
Timestamp = 1161820663 = Thu Oct 26 01:57:43 2006
Modules = 4 5 6 8 9 11 12 13 14 15 17 18 19 20 21 22 23 0 16 0 7 0 10 0 3 0 2 0 1 0 0 0 0 0 0 0 0
 0 0
```

this means: module #4 is in layer 1 and so on

But Sven thought that the DAQ asks for all 28 layer positions and not for the filtered list, based on the above information. In the slowControl mapping he has only 23 entries, which are standing for the active layer number, but no empty slots for the not equipped layers. Therefore his list has only 23 entries, which is different from the one the DAQ expect.

Sven SC mapping:

```
 1 -  1
 2 - 12
 3 -  4
 4 -  2
 5 -  5
 6 -  6
 7 -  7
 8 -  8
 9 -  9
10 - 14
11 - 10
12 -  3
13 - 11
14 - 13
15 - 15
16 - 16
17 - 23
18 - 24
19 - 22
20 - 21
21 - 20
22 - 19
23 - 17
```

Therefore, we have a mismatch in the mappings which leads to the result that we have not read the module information for module 18, 20 and 22, because the DAQ skips these values.

In the first run period we have not run into this problem, because we have not left the empty slots in the slowControl mapping free, which was also not 100% correct. But since it was homogenous over the complete AHCAL weh have not thought about it.



File: http://ttfinfo.desy.de/CALICEelog/data/doc/CERN docu/2007-02-27T14:07:00-02.pdf

2007-02-27 14:41 Marius **DAQ online histogram reset**

```
Usefull for the DAQ online histograms:

to reset a histogram and the change the setting, use following commands:

hstReset -l 3  ===> reset fuer jede acquisition
hstReset -l 2  ===> reset fuer jede config
hstReset -l 4  ===> reset fuer jedes event
hstReset -l 0  ===> never
hstReset -l 1  ===> reset fuer jeden run

to force 'now' a reset, use:
hstReset +r
```

2007-02-27 14:41 Marius **DAQ trigger choice -v**

```
-v option is used for the trigger decision, in the meaning which trigger is used in the run

-v 26 : coincidence of 10x10 scint
-v 28 : coincidence of 3x3 scint
-v 19 : coincidence of 100x100 scint
-v 2 : single signal of 20x20 scint
-v 9 : external pulser for trigger checks (normally not used)

this was valid for all beamRuns at CERN in 2006
```

2007-02-27 16:49 Marius **HV drop on its way to the SIPM**

```
We have to deal with a HV drop from the HV coming out of the HV distribution box on its way to the
 SIPM.

Measurement:
HV set to 39,7 V @ SC panel

(measurement point explanations in enclosed pdf)
1-3 39,2V (multimeter correction: +0,39V) = HV - losses
1-4 0V (SIPM off) 0.08-0.15V (SIPM ON)    = 100kOhm voltage drop

2-4 39,4V  = HV - DACoffset (no multimeter correction needed, because no 100kOhm in parallel)
2-3 0,2V = DACoffset (DAC at 0 bit is not 0V)
```

to 1-4: this change happens when the SIPMs are turned on, because the additional voltage drop over
 the 100kOhm can only happen when the circuitry is closed (which means when the SIPMs
 are ON!).

to 1-3: Multimeter correction is needed and is 1% of the measured voltage

U(SIPM) = U(1-3) + (100kOhm/10MOhm * U(1-3))
        = 39,2V + 0,392V
        = 39,6V

SUMMARY:

1.) cable HV drop: 100mV from HV distribution box to VFE electronics (HBAB input)
2.) if SIPM operates and draws a current of 300-500nA
=> U_drop @ 100kOhm = 0,03 - 0,05 V
if SIPM has long discharge (> 1muA) U_drop > 100mV
(measured with SIPM 1648: U_drop = 0,15V; tile tester current 1,84muA
=> SIPM with high current drops the HV

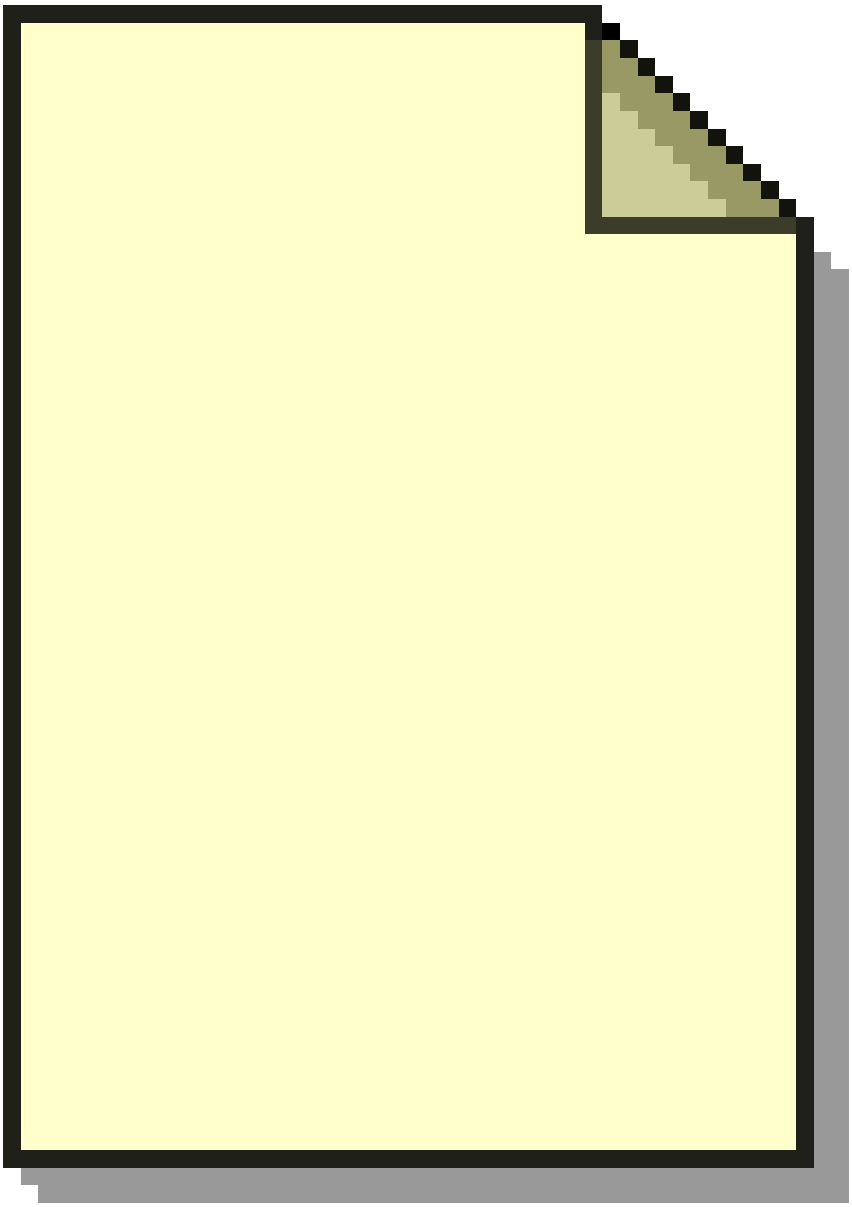
=> we have an average total U_drop of ~200mV



File: http://ttfinfo.desy.de/CALICEelog/data/doc/CERN docu/2007-02-27T16:49:14-02.pdf

2007-02-27 21:18 Marius **Simple Binary Analysis (SBA) zipfile with code**

Manual and documentation can be found in the next elog entry.



File: http://ttfinfo.desy.de/CALICEelog/data/doc/CERN docu/2007-02-27T21:52:58-00.zip

2007-02-27 21:19 Marius **Simple Binary Analysis (SBA)**

The enclosed zip-file (next elog-entry) contains small pieces of DAQ analysis code for the AHCAL.

If you have the DAQ code you can recreate a daquser area with the following links to the DAQ code:

daquser -> ../code/daquser/
data
records -> ../code/records

Then you create also a local inc and src and copy the files from the zip file in these files as indicated in the zipfile structure.

For the ahcBinTree tool also

mapping

and

calibration

directories are needed. Examples are in the zipfile (examples from the CERN testbeam 2006).
Althought the newest DAQ BinReader can handle the DESY dCache file access the needed/modified files are also contained in the zipfile:

```
dcap.h
dcap_errno.h
RcdReaderBin.hh

Take care: in this case you use a different Reader than the official one and you have to use the
 build script provided by the zipfile (./bin/build).


A documentation of the tools can be found in the attached pdf-file.
```



File: http://ttfinfo.desy.de/CALICEelog/data/doc/CERN docu/2007-02-27T21:19:00-04.pdf

2007-02-27 22:10 Marius **Module01 had a wrong DAC file**

```
The DAC file DAC_module01_031006.dat was wrong. (it is the same like DAC_module02_031006.dat)
Therefore module01 was not working properly during the october run period.
It seems to be a copying failure or mine.

The new corrected file copied to the calice diskarray is called:
DAC_module01_260207.dat
```

2007-01-04 16:18 Sebastian Schaetzel **Module 24 gain and pedestal runs**

202250	ahcGain	20k events per configuration, see below for scheme
202251	ahcPmNoise	20k events
202252	ahcCmNoise	20k events

ahcGain scheme:
nominal Vcalib:=Vcalib in AHC.cfg

configuration	comment
0	pedestal (nominal Vcalib but no Tcalib sent to CMB)
1	nominal Vcalib-100
2	nominal Vcalib
3	nominal Vcalib+100

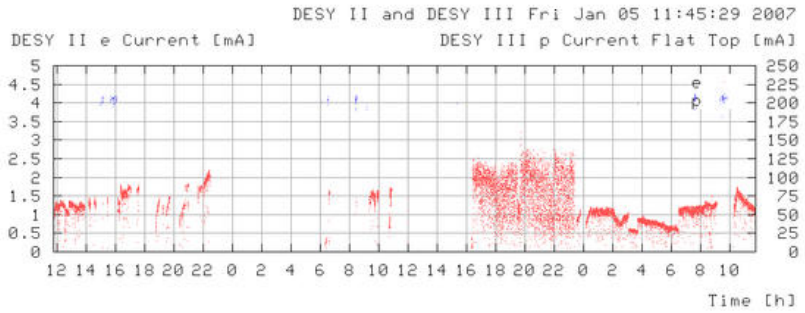
2007-01-04 16:40 Sebastian Schaetzel **MIP calibration module 24 reverse orientation with CMB**

202253	ahcBeamStageScan	-v 13	3 GeV	e

stage positions: flchcaldaq01:/home/caliceon/cfg/StagePositions_innercore.dat
stopped on Jan 5 at 11h40 at position x=-105, y=15 because no beam rate (machine problems?)

REVERSE ORIENTATION! -> the chip/channel data in the file correspond to the normal orientation!

LEDs and temperature readout via CMB



File: http://ttfinfo.desy.de/CALICEelog/data/2007/01/04.01/2007-01-04T16:40:23-03.gif

2007-01-05 11:45 Sebastian Schaetzel **Module 24 gain and pedestal runs**

202254	ahcGain	like 202250
202255	ahcPmNoise	20k events
202256	ahcCmNoise	20k events

2007-01-10 09:08 Doerte David **assembling status**

Due to xmas and holidays the production is slowly going on.

All modules from CERN (1...23) are back at DESY.

Others (24...26) are ready for tests.

Last year we got tiles for module 27 and 28.
Several SiPMs were not ok (defect or long discharge) but we had not enough spare tiles due to their higher HV. Therefore we decided to combine 1 half of the tiles foreseen for module 27 and 1 half foreseen for module 28.
Additional we had technical problems with the test system which were solved also in December.
All (?) tiles for 27 and 28 are tested. Assembling of cassette 27 was started.

cassettes work in progress: 27
cassettes ready: 24 - 26
1 - 23


status of production: 02cw-07 cassette assembling HCAL / FLC

module	assembling steps									staff
	1	2	3	4	5	6	7	8	9	
#	base frame	tiles	SiPMs	FR4 plate	pads	cabling	fibres	temp.sensors	cover plate	no. of persons
										0
28...35										
27										
24...26										
1...23										

legend ready work in progress problems

status-02cw07.xls 1 / 1 D. David, F1, 10.01.07

File: http://ttfinfo.desy.de/CALICEelog/data/2007/02/10.01/2007-01-10T09:08:58-03.pdf

2007-01-10 13:15 Doerte David **assembling status**

planning:

Tiles for module 29 and 30 are ready produced and tested in Moscow.
Tiles for module 31 and 32 will be tested in Moscow soon.
Sending all tiles including spare tiles for module 27 and 28(?) to DESY are planed for end of next week.

Our 2 Russian colleagues will come to DESY again end of January, beginning of February.

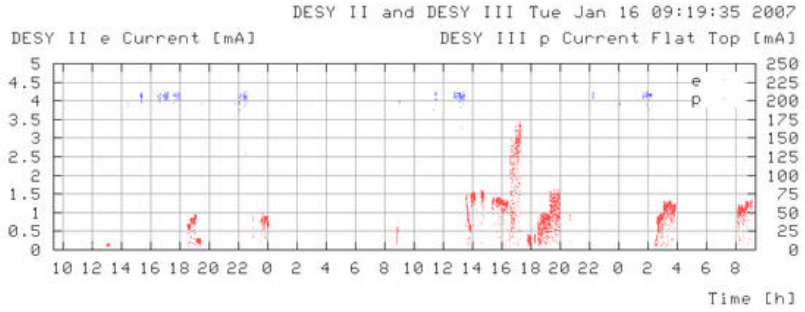
With cassette no.31 we will start with an other granulation: coarse (instead of fine)
Some questions about cabling, allocation SiPMs to front end electronic have to be answered.
The machine, the program for measuring the position of SiPMs and drilling the FR4 plate has to be readjusted.

2007-01-15 19:14 Sebastian Schaetzel **MIP calibration inner core module 24**

202260	ahcBeamStageScan	-v 13	3 GeV	e	StagePositions_innercore.dat but flipped orientation

machine problems, data useless

The shutter closed automatically due to machine problems at some point since run start.
Unfortunately the shutter does not open automatically when the machine is fixed.
-> design error



File: http://ttfinfo.desy.de/CALICEelog/data/2007/03/15.01/2007-01-15T19:14:13-02.gif

2007-01-16 09:33 Sebastian Schaetzel **waiting for electrons**

With positrons the trigger rate at our experiment is 2Hz.
With electrons the rate is around 50Hz. According to John Maidment e+ and e- orbits are not equal after switching magnet polarity due to permanent magnetic stray fields.

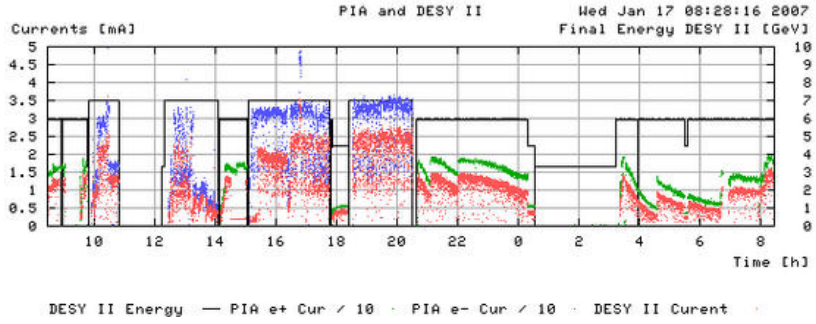
-> We cannot use positrons. Electrons cannot always be delivered due to other users' requests.

2007-01-16 10:08	Sebastian Schaetzel	**MIP calibration module 24 reverse orientation with CMB**			
202261	ahcBeamStageScan	-v 13	3 GeV	e-	StagePositions_innercore.dat but flipped orientation

useless data, beam lost due to machine problems shortly after starting the run

2007-01-16 17:53	Sebastian Schaetzel	**MIP scan**			
202266	ahcBeamStageScan	-v 13	3 GeV	e-	StagePositions_innercore.dat but flipped orientation

at around 18h00 switch-over to positrons to fill and recover DORIS
data useless after 20h45 because of switch-over to positrons
good data for 13 tiles



File: http://ttfinfo.desy.de/CALICEelog/data/2007/03/16.01/2007-01-16T17:53:14-02.gif

2007-01-17 17:47	Sebastian Schaetzel	**mip scan**		
202270	ahcBeamStageScan	-v 13	3 GeV	e-

flchcaldaq01:/home/caliceon/cfg/StagePositions_innercore_flipped_20070117_12h45.dat

2007-01-22 11:12	Niels	**Position of temperature sensors**

Hi all,

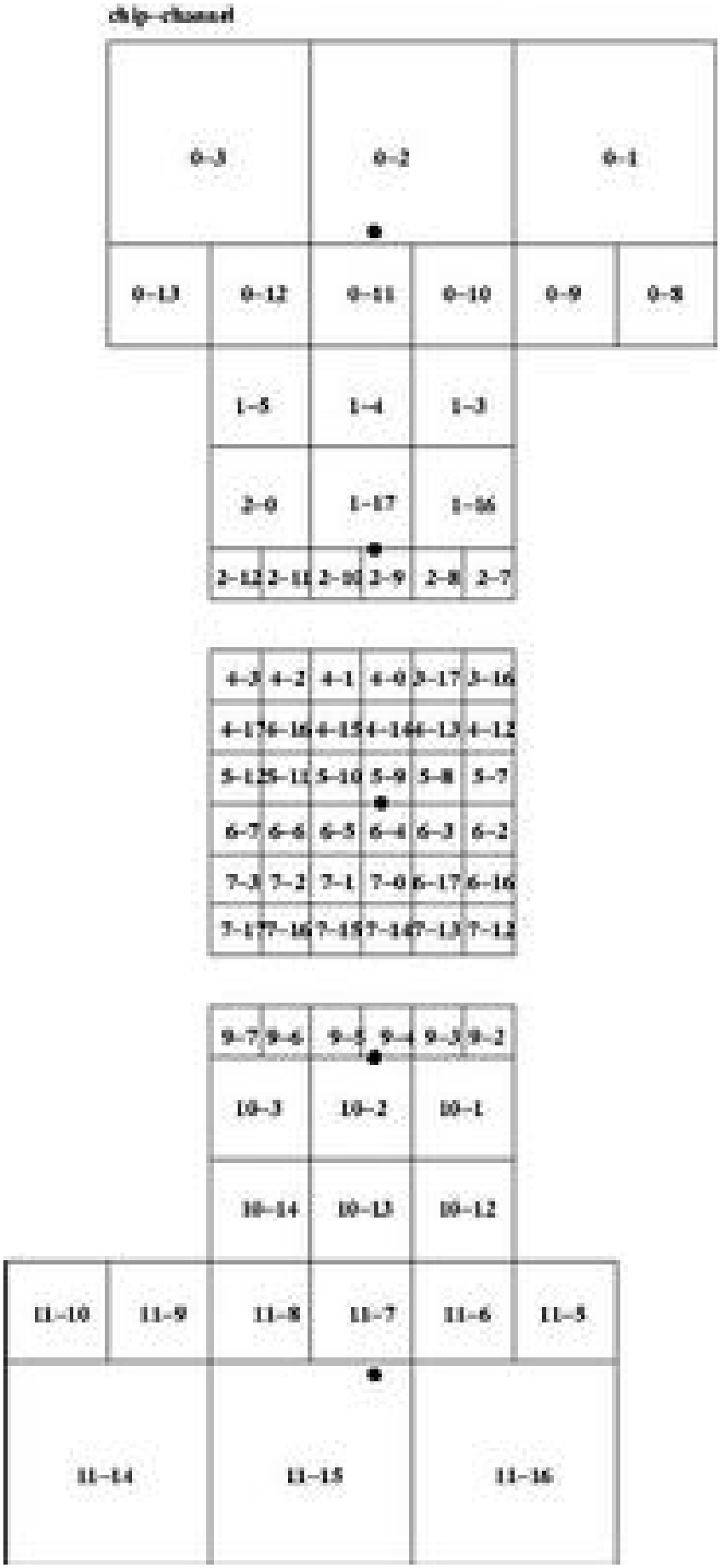
I made this sketch with the closest cells to the five in-module temperature sensors.

Hope it helps,
Niels

Update Feb 1, 2007:

The previously posted picture contained an error - thanks to Sebastian Schaetzl for catching the wrong chip numbers in the lowest row of the middle panel. Plot is corrected, please download again.

Cheers,
Niels


chip-channel
0-3
0-2
0-1
0-13
0-12
0-11
0-10
0-9
0-8
1-5
1-4
1-3
2-0
1-17
1-16
2-12
2-11
2-10
2-9
2-8
2-7
4-3
4-2
4-1
4-0
3-17
3-16
4-17
4-16
4-15
4-14
4-13
4-12
5-13
5-12
5-11
5-10
5-9
5-8
5-7
6-7
6-6
6-5
6-4
6-3
6-2
7-3
7-2
7-1
7-0
6-17
6-16
7-17
7-16
7-15
7-14
7-13
7-12
9-7
9-6
9-5
9-4
9-3
9-2
10-3
10-2
10-1
10-14
10-13
10-12
11-10
11-9
11-8
11-7
11-6
11-5
11-14
11-15
11-16

File: http://ttfinfo.desy.de/CALICEelog/data/doc/HCALproduction/2007-01-22T11:12:11-02.jpg

2007-01-29 14:10	E. Garutti	**MWPC manual**

Here you will find a User Manual for the CERN Delay Wire Chambers:

http://sl.web.cern.ch/SL/Publications/bi98-023.pdf

2007-01-29 14:11	E. Garutti	**beam orbits**

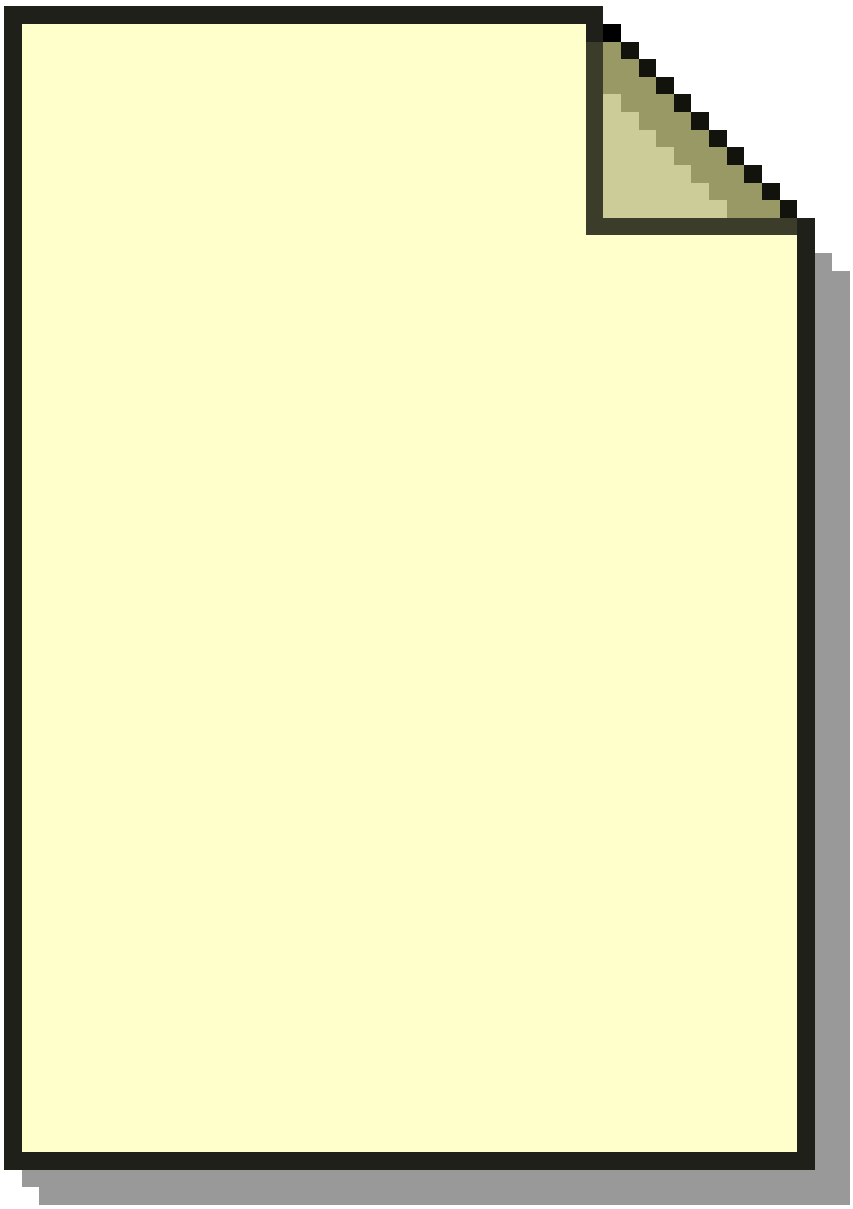
Beam orbits on the T4 target

http://ab-div-atb-ea.web.cern.ch/ab-div-atb-ea/documentation/Target/T4/T4Wobbling3.pdf

2007-01-29 14:11	E. Garutti	**sketches of the tb areas**

http://www.pp.rhul.ac.uk/~calice/fab/TestBeams/

2007-01-29 18:50	E. Garutti, M. Groll	**Beam Tuning manual for SPS-H6**



File: http://ttfinfo.desy.de/CALICEelog/data/doc/CERN docu/2007-01-29T18:50:39-00.ps